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Bucknell University Bulletin.

FIFTH SERIES JANUARY, 1906 NO. 3

CATALOGUE

1905-1906.

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Lewisburg, Pennsylvania.

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LIBRARY
OF THE
UNIVERSITY OF ILLINOIS.

THE

FIFTY-SIXTH CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

Bucknell University:

COLLEGE OF LIBERAL ARTS.

FOR THE YEAR 1905-1906.

DEPARTMENTS.

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The College of Liberal Arts	15 to 134
The Academy for Young Men	135 to 160
The Institute for Young Women	161 to 194
The School of Music for Both Sexes	195 to 207

SUMMARY OF ATTENDANCE.

The College of Liberal Arts	490
The Academy for Young Men	88
The Institute for Young Women	99
The School of Music for Both Sexes	112
Total (deducting names repeated)	708

CALENDAR.

The Spring Term Begins	Wednesday, March 28, 1906
Annual Commencement	Wednesday, June 20, 1906
The Fall Term Begins	Thursday, September 20, 1906
The Winter Term Begins	Wednesday, January 2, 1907

LIBRARY OF THE UNIVERSITY OF ILLINOIS.

PLAN AND PURPOSE OF THE UNIVERSITY.

CORPORATE RIGHTS.

The University was incorporated with full University privileges by the Legislature of Pennsylvania, in an Act approved by the Governor on the fifth day of February, A. D. 1846. The management of the University is committed to a Board of Trustees, consisting of twenty-five members, or fewer at the option of the Board. The trustees are prohibited, for any cause or under any pretext whatever, from encumbering by mortgage or otherwise the real estate or any other property of the institution. It is required by the charter that no religious sentiments are to be counted a disability to hinder the election of an individual to any office among the teachers of the institution, or to debar persons from attendance as pupils, or in any manner to abridge their privileges or immunities as students in any department of the University.

ENDOWMENT.

The institution has productive investments amounting to over $700,000. The endowment funds, raised at various times, were increased, in 1881, to an even $200,000. William Bucknell contributed to the general fund $115,000, and for scholarships and prizes about $25,000. One hundred thousand dollars additional for endowment was raised in 1892. In 1900, a fund of $75,000 for additional endowment and improvement was completed. An additional hundred thousand dollars of endowment was completed December 31, 1902. The total property of the institution aggregates one million dollars.

THE MILLION DOLLAR MOVEMENT.

The Board of Trustees at its meeting in January, 1903, authorized an effort to increase the endowment by one million dollars. It is expected to obtain this sum by gifts and legacies.

FORMS OF GIFTS.

To persons wishing to leave money for the education of the young, the following forms of beneficence are suggested:

(a) A department can be endowed for $100,000 and upward.

(b) Professorships can be endowed for $50,000 each.

(c) Fellowships can be endowed for $10,000 each.

(d) Scholarships can be endowed by a gift of $1,000 to $5,000 each, the income to be given toward the expenses of the student. The income will be estimated from the average income of the funds of the institution, and is applied only in the year in which it falls due.

(e) A loan fund should be established. The interest from this could be loaned to students, the principal being kept intact. In this way a large active loan-fund would accumulate.

Each of these forms of beneficence would bear and perpetuate the name of the donor or of the person designated by him.

FORM OF BEQUEST.

To persons desiring to aid in increasing the efficiency of the schools in their work of preparing young men and young women for usefulness, the following form of bequest is recommended:

I give and bequeath to the Bucknell University, of Lewisburg, Pennsylvania, the sum of ..... Dollars for the general purpose of said school, according to the Act of Assembly incorporating the same.

Or if for a special purpose:

I give and bequeath to the Bucknell University, at Lewisburg, Pennsylvania, the sum of ..... Dollars for the establishment of a Department, Professorship, fellowship, scholarship or loan fund, to bear and perpetuate the name of.....forever.

ORGANIZATION.

The University comprises four schools:

I. The College offers eight Courses of study, each of four years, and each leading to its appropriate degree:

1. **The Classical Course.**
2. **The Philosophical Course.**
3. **The General Science Course.**
4. **The Course in Jurisprudence.**
5. **The Course in Biology.**
6. **The Course in Chemistry.**
7. **The Course in Civil Engineering.**
8. **The Course in Electrical Engineering.**

II. The Institute for young women has three Courses of study, the Literary, the Classical, and the Scientific, leading to diplomas which admit to the Sophomore year in College.

III. The Academy is designed to fit young men for College, either for the Classical, Philosophical, Scientific, or Technological courses.

IV. The School of Music has full Courses in instrumental and vocal music, and grants diplomas to those who complete any of the specified Courses.

These schools are one corporation, have one President, who has general charge, with a Principal in more immediate charge of each of the subordinate departments. All expenses are met from funds in the hands of a common treasurer.

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400 South Fortieth Street, Philadelphia.

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HON. SIMON P. WOLVERTON, LL. D.

MEETINGS OF THE BOARD.

The annual meeting is held on Tuesday of Commencement week, at Lewisburg.

The semi-annual meeting is held on the second Thursday of January, in Philadelphia.

COMMITTEES OF THE BOARD.

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AND THE PRESIDENT.

THE UNIVERSITY PROPERTY.

I. THE MAIN COLLEGE.

The main College building is situated on a hill one hundred feet above the Susquehanna River, and overlooks scenery of unsurpassed beauty. It was designed by Thomas U. Walter, LL. D., architect of the dome and wings of the Capitol at Washington, D. C., and is in the Grecian style, combining dignity and simplicity. The building has a façade of three hundred and twenty feet. The central portion is eighty feet square, and is strengthened in front by four massive columns. On the first floor are six recitation rooms. On the second floor are the halls of the Theta Alpha and Euepia Literary Societies, the Library-rooms, Reading-room, and Museum of Natural History.

In the third story is Commencement Hall, with a seating capacity of fifteen hundred.

The wings on the eastern and western sides, respectively, of the Main Building, are each one hundred and twenty feet in length and four stories in height, and are used for students' rooms.

Several thousand dollars have been expended recently in improving the College building.

II. THE WEST COLLEGE.

The West College was erected in the year 1900. It is constructed of brick, four stories in height, and contains ninety-seven rooms, one of which is a hall for the use of the Young Men's Christian Association, another a reading room, and the others are designed for the residence of students.

III. THE BUCKNELL HALL.

Bucknell Hall is the Chapel of the College. In it all the students of the College meet daily for worship.

IV. THE CARNEGIE LIBRARY BUILDING.

The new Library building was given by the Honorable Andrew Carnegie, D. C. L., in the year 1905.

The building is sixty-four feet by ninety, built of pressed brick, and trimmed with brownstone. The center, thirty feet by ninety, is used as a reading room. At the height of sixteen feet there is a gallery extending around the room. The sides, each fifteen feet by ninety, are divided on the first floor into rooms for special collections and for offices. The second and third floors are used for stack rooms. The building will accommodate about 150,000 volumes.

V. THE OBSERVATORY.

The Observatory was erected in 1887 and enlarged in 1905. It is designed for the use of students in Practical Astronomy.

The equipment represents the latest improvements in astronomical instruments. It consists of a Clark Equatorial Telescope of 10 inches aperture and 12½ feet focal length, furnished with a fine position Micrometer and all the usual accessories; a Spectroscope with prism and grating by Brashear; a 3-inch prismatic Transit, with a 13-wire movable Micrometer, a Fauth Chronograph with Bond Spring Governor; a Waldo Precision Clock for sidereal time, with mercurial compensation, break circuiting apparatus; Daniell's battery and telegraph sounders; a Seth Thomas Clock for solar time; a Sextant; a 3-inch Altitude Azimuth Refractor; a set of Meteorological instruments; Celestial globes and maps, and standard works on Theoretical and Practical Astronomy.

VI. THE CHEMICAL LABORATORY.

The Laboratory was erected in 1890, and is a building forty-three feet in width and eighty-six feet in length, with two stories above the basement. In the first story, which has a clear height of fifteen feet, are a lecture-room, with seating for one hundred and twenty-five students, and a large working-room, in which are tables for individual work in Chemical Analysis; the second floor contains a lecture-room and rooms for laboratory work in Organic Science; the basement has a room for Applied Chemistry, and a fire-proof room.

VII. THE PHYSICAL LABORATORY.

The Physical Laboratory was erected in 1902. It is a building of two stories, fifty by sixty, constructed of brick trimmed with brownstone. The basement serves for the heating and lighting plant of the institution; the main story, with one room twenty by fifty and another forty by forty-five, accommodates the Department of Physics. A large dark-room was added to the equipment in 1905.

VIII. THE TUSTIN GYMNASIUM.

The basement of the Gymnasium is built of stone, and contains an office for the director, rooms for students' lockers, dressing-rooms, and shower baths. The second story is built of brick, rising twenty-two feet from the main floor to the square, and is open to the roof. At the height of twelve feet a running-track gallery, six feet wide, surrounds the room.

IX. THE ATHLETIC FIELD.

The field is conveniently located at the foot of "College Hill," and has been graded and fitted up for out-door sports. In the northwest corner, at the main entrance to the college

grounds, a shaded section has been set aside for tennis. The athletic field is sufficiently large for foot-ball, base-ball, and lacrosse. A running track, a quarter-mile in length, has been constructed on the eastern part of the campus. The Tustin Gymnasium is located at the end of the field, so as to be near the center of exercise, and easily accessible to the trainers and students.

X. THE ACADEMY.

1. The Main Building of the Academy is situated on "College Hill," and is fifty feet in width by eighty feet in length, and three stories in height. On the first floor is a dining-room, thirty feet by thirty-six feet; two recitation-rooms, a reception-room, and the Principal's office; on the second floor are suites of rooms for the Principal and his family and for the Matron. The third floor is used for students' rooms, each twenty feet by twelve feet, and fourteen feet high.

2. The East Hall of the Academy is the Bucknell Cottage for young men, and is contiguous to the main building and connected with it by a covered passageway. It is of brick, three stories high, sixty feet in length and forty feet in width, and is finished in natural wood. The building contains a general study-room, a recitation-room, teachers' apartments, and rooms for students. The rooms have high ceilings, large double windows with inside shutters, and two commodious closets each.

Both buildings are supplied with hot and cold water, are warmed by steam and lighted by electricity.

XI. THE COLLEGE FOR WOMEN.

The buildings and campus of this department are set apart for the use of women taking courses in the College, in the Institute, and in the School of Music.

1. **The Main Building** contains, on the first floor, an office for the Dean and the Registrar, a reception-room, the office of the Director of Music, music-rooms, recitation-rooms, and a dining-hall; on the second floor, a school-room and a parlor; on the third floor, a library-room, teachers' apartments, and students' rooms. The main building was enlarged, 1905, by an addition to the dining-hall.

2. **The South Hall**, erected in 1869, is devoted to students' rooms, except the third story, which is used as a gymnasium. This gymnasium has been lately improved and equipped.

3. **The Bucknell Cottage** stands to the southwest of the Main Building, and is connected with it by an enclosed passageway. It is built of brick, in the Queen Anne style of architecture, and has dimensions of forty feet by one hundred feet. The interior is finished in natural wood, and is equipped, in matters of light, heat, and ventilation, with modern improvements.

The portion allotted to students' rooms affords accommodations for forty occupants. These rooms are in suites on the general plan of a center parlor, with bed-rooms and closets on either side. In this building is the **Studio**, a spacious room with such adjustments for the admission of light and supply of unencumbered wall surfaces as adapt it for the execution and display of art products.

4. **The New Cottage** for women, with a front of one hundred and twenty-eight feet and a depth of forty feet, rising three stories above the basement, was erected in 1905. It contains eighty-seven rooms.

The **Calisthenium** occupies the whole of the upper story, and has a floor surface of over four thousand feet.

All the buildings are supplied with hot and cold water, are warmed by steam, and lighted by electricity.

5. **The Campus** of the Women's College is separated from the main college grounds, by Loomis Street.

XII. HEATING AND LIGHTING PLANT.

A central steam heating and electric lighting plant has been erected; all the rooms, public and private, in the several buildings of the institution are warmed and lighted from this plant.

XIII. THE PRESIDENT'S HOUSE.

The Corporation also owns a house for the use of the President of the University.

THE COLLEGE.

THE FACULTY AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D., PRESIDENT,
AND PROFESSOR OF PSYCHOLOGY AND ETHICS.

* FREEMAN LOOMIS, A. M., PH. D.,
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ENOCH PERRINE, A. M., LITT. D.,
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* Retired.

THOMAS FRANKLIN HAMBLIN, A. M.,

NEW JERSEY PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

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PROFESSOR OF PEDAGOGY AND DEAN OF THE DEPARTMENT FOR WOMEN.

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WILLIAM CHRISTIAN GRETZINGER, A. M.,
REGISTRAR OF THE UNIVERSITY.

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FRANK EUGENE BURPEE, A. M.,
SUPERINTENDENT OF BUILDINGS AND GROUNDS.

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Secretary, HARRY CHESTER FITHIAN, A. M., Williamsport.

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Secretary, CHARLES J. WOLFE, A. M., Lewisburg.

The Alumni Club of Sunbury.

President, GEORGE EDWARD DEPPEN, A. B.
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NAMES OF STUDENTS.

GRADUATE STUDENTS.

NAME.	MAJOR SUBJECT.	RESIDENCE.
COTTIE GUDILA ALBRIGHT, PH. B.,	*Pedagogy.*	Lewisburg
ESTELLA MAY ALBRIGHT, A. B.,	*Education.*	Mifflinburg
ARCHIBALD MERRILL ALLISON, A. B.,	*History.*	Spring Mills
CHARLES FAYETTE ARMOUR, PH. B.,	*History.*	Girard
JEREMIAH STAMEY AUSHERMAN, A. B.,	*Jurisprudence.*	Sistersville, W. Va.
LYNDON ERNEST AYRES, A. B.,	*Language.*	Camden, N. J.
EDNA LORINE BACON, A. B.,	*Classics.*	Mt. Holly, N. J.
EDWARD BELL, JR., A. B.,	*Mathematics.*	Frankford
ELLA BEALE, LITT. B.,	*Literature.*	Pelham Manor, N. Y.
LILLIAN BEALE, LITT. B.,	*Literature.*	Philadelphia
EMORY OLIVER BICKEL, PH. B.,	*Mathematics.*	Glen Campbell
CHARLES FRANKLIN BIDELSPACHER, A. B.,	*Jurisprudence.*	Williamsport
BENJAMIN FRANKLIN BIEBER, A. B.,	*Sociology.*	Pottsgrove
GEORGE RIPLEY BLISS, A. B.,	*Mathematics.*	Washington, D. C.
HARRY SILVERWOOD BOGAR, PH. B.,	*Economics.*	Herndon
ROY GRIER BOSTWICK, A. B.,	*Jurisprudence.*	Pittsburg
MARY ISABEL BOWER, SC. B.,	*Pedagogy.*	North Girard

NAME.	MAJOR SUBJECT.	RESIDENCE.
BENJAMIN KANE BRICK, SC. B.,	*Organic Science.*	Marlton, N. J.
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MANSFIELD FRENCH FORBELL, A. B.,	*New Testament Greek.*	Rochester, N. Y.
AMZI WILSON GEARY, PH. B.,	*History.*	Carbondale
CARRIE LOUISE GEARY, PH. B.,	*History.*	Carbondale
MARIA MAUDE GODDARD, A. B.,	*Classics.*	New Orleans, La.

NAME.	MAJOR SUBJECT.	RESIDENCE.
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ELMER AZIMA HUMMEL, A. B.,	*Language.*	Kratzerville
LAURA MAE HUMMEL, SC. B.,	*Education.*	Kratzerville
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JOHN THOMAS HYATT, PH. B.,	*Jurisprudence.*	Jersey Shore
JOHN C. JOHNSON, SC. B.,	*Organic Science.*	Red Top
SARAH ETHEL JUDD, SC. B.,	*Literature.*	Lewisburg
JAMES LLOYD KALP, PH. B.,	*Economics.*	Mt. Pleasant
WILLIAM LAWRENCE KALP, A. B.,	*Science.*	Mt. Pleasant
ALBERT GEORGE KARGE, PH. B.,	*Language.*	Marshalltown, Iowa
EDITH HEDGES KELLY, PH. B.,	*Language.*	Watsontown

NAME.	MAJOR SUBJECT.	RESIDENCE.
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EDWARD CHARLES KUNKLE, A. B.,	*History.*	Scottdale
MARY EDNA THATCHER KYLE, SC. B.,	*Science.*	Columbia, S. C.
SARAH ESTHER LEE, A. B.,	*Classics.*	Scranton
LENA RUTH LESHER, A. B.,	*History.*	Northumberland
MARY LILA LONG, A. B.,	*English Literature.*	Williamsport
IDA EVALINE LUCHSINGER, A. B.,	*History.*	West Pittston
ROBERT B. MACKEY, PH. B.,	*Organic Science.*	Waverly
ELIZABETH BRITON MEEK, A. B.,	*Latin.*	Allenwood
JOSEPH EDWARD MILLEN, PH. B.,	*Literature.*	Stanton
EARL AUSTIN MORTON, A. B.,	*Economic Science.*	Dravosburg
FRANCES LEROY MCCAULEY, A. B.,	*New Testament Greek.*	Horseheads, N. Y.
ANNA ELIZABETH NOAKER, PH. B.,	*German.*	Spring Valley, Ill.
EDITH LEE PHILLIPS, A. B.,	*Classics.*	Plymouth
WILLIAM CAREY PURDY, SC. B.,	*Organic Science.*	Slippery Rock
FRANCES ANNA RACE, A. B.,	*Literature.*	Scranton
LEE RUSSELL RANCK, PH. B.,	*Sociology.*	Philadelphia
PHILLIP REILLY, A. B.,	*Education.*	Orwell
CHESTER BENJAMIN RENN, A. B.,	*History.*	Montoursville
WALTER KREMER RHODES, PH. B.,	*Mathematics.*	Ann Arbor, Mich.

NAME.	MAJOR SUBJECT.	RESIDENCE.
DAVID HOWARD ROBBINS, A. B.,	*History.*	Phoenixville
FREDERICK W. ROBBINS, PH. B.,	*History.*	Bethlehem
JOHN CALVIN SANDERS, A. B.,	*Hebrew.*	Vicksburg
OLIVE SCHILLINGER, A. B.,	*Literature.*	Martin's Ferry, Ohio
FRANCES GERTRUDE SCOTT, SC. B.,	*Science.*	Lewisburg
HELEN AGATHA SELINGER, A. B.,	*Science.*	McKean
ROBERT FRANCIS SHEPPARD, SC. B.,	*Jurisprudence.*	Cedarville, N. J.
FRANKLIN ISAAC SIGMUND, A. B.,	*Education.*	Everett
JOHN YEOMAN SINTON, PH. B.,	*Organic Science.*	Philadelphia
JOHN BEISEL SMILEY, SC. B.,	*Civil Engineering.*	Steelton
AMANDUS MERKLE SMITH, A. B.,	*Mathematics.*	Elkhart, Ind.
ARTHUR ANSON SMITH, PH. B.,	*Jurisprudence.*	Williamsport
JAMES WILSON SNYDER, A. B.,	*Jurisprudence.*	Berwick
CLOYD NILLIS STEININGER, SC. B.,	*Jurisprudence.*	Lewisburg
ROBERT JOSEPH TERRELL, A. B.,	*History.*	New York City
CHARLES MILTON TEUFEL, A. B.,	*Political Science.*	Milton
HAROLD EDWARD TIFFANY, SC. B.,	*Chemistry.*	Tunkhannock
LEVI JOSEPH ULMER, SC. B.,	*Education.*	Williamsport
ALVIN MONROE WEAVER, A. B.,	*Political Science.*	Williamsport
MABELLE ESTELLE WHEELER, PH. B.,	*Literature.*	Erie
BENJAMIN FRANKLIN WHITE, JR., A. B.,	*Organic Science.*	Bradford

NAME.	MAJOR SUBJECT.	RESIDENCE.
JOHN E. WILLIAMS, SC. B.,	*Education.*	Dickson City
SAMUEL GARBER WILLIAMS, PH. B.,	*Jurisprudence.*	Greensburg
CLIFFORD VERNON WILLIAMSON, PH. B.,	*Pedagogy.*	Eatontown, N. J.
RUTLEDGE THORNTON WILTBANK, PH. B.;	*Bible.*	Hollidaysburg
CLYDE DALE WOLFE, SC. B.,	*Jurisprudence.*	Ann Arbor, Mich.
JENNY MAY WOOD, A. B.,	*Literature.*	Factoryville
THOMAS WOOD, A. B.,	*Political Science.*	Ann Arbor, Mich.
JOHN ADAM YOUNG, PH. B.,	*Education.*	Kane
WILLIAM D. ZERBY, A. B.,	*Literature.*	Bellefonte
IRWIN WELLINGTON ZIEGLER, SC. B.,	*History.*	Linden Hall

Graduate Students, 111.

THE SENIOR CLASS.

CLASS OF 1906.

NAME.	RESIDENCE.	ROOM.
Florence Louise Bacon,	*Canton.*	Women's College
James Riley Bailey,	*Greensburg.*	No. 15, West Wing
Genus Ebert Bartlett,	*Webster, W. Va.*	No. 10, West Wing
Amos Ethan Barton,	*Vilas.*	No. 57, West College
Edwin Anthony Beaver,	*Huntingdon.*	No. 94, West College
Elbina Lavinia Bender,	*Lewisburg.*	North Fourth Street
Elbert Little Blakeslee,	*Montrose.*	North Third Street
Norman Eugene Bliss,	*Washington, D. C.*	No. 43, West College
Joseph Leighton Challis,	*Waverly.*	No. 23, West Wing
Burleigh Claypool,	*Kittanning.*	No. 3, East Wing
Florence Jeanette Cobb,	*Coudersport.*	Women's College
Harold Newton Cole,	*Du Bois.*	No. 69, West College
Clarence Burnap Comstock,	*Grover*	No. 4, East Wing
William Thomas Coverdale,	*Lewisburg.*	South Sixth Street
William Eugene DeMelt,	*South Waterloo, N. Y.*	North Third Street
John Grover Denninger,	*Great Valley, N. Y.*	No. 4, East Wing
Harvey O. Dietrich,	*Krumsville.*	No. 23, West College
William L. Donehower,	*Lewisburg.*	Market Street
Linn Clark Drake,	*Tunkhannock.*	No. 23, West Wing

NAME.	RESIDENCE.	ROOM.
Fred Voris Follmer,	*Milton.*	Milton
Sara Cyrena Furman,	*Wellsboro.*	Women's College
Benajah Jack Gardner,	*Factoryville.*	No. 23, West Wing
Maurice Frank Goldsmith,	*Carnegie.*	No. 27, West Wing
John Wallace Greene,	*Norristown.*	No. 89, West College
Romaine Hassrick,	*Muncy.*	No. 50, West College
Armel Boltz Heffling,	*Mt. Pleasant.*	No. 6, East Wing
John Franklyn Hennessy,	*Irwin.*	No. 36, West College
Leroy W. Hoon,	*Monongahela.*	No. 65, West College
Charles McCallum Howell, Jr.,	*Northumberland.*	No. 91, West College
Edwin Gilmore Jack,	*Dallas City.*	Lewisburg
Walter Jarrett,	*Sunbury.*	No. 90, West College
Henry Jones,	*Plymouth.*	No. 12, West Wing
Augustus Sheridan Kech,	*Snow Shoe.*	No. 16, West Wing
Hazel Louise Knapp,	*Bristol, Ind.*	Women's College
Charles Aaron Knupp,	*Penbrook.*	No. 59, West College
Edith E. Lane,	*Ulysses.*	Women's College
Robert Benjamin Leighou,	*Northumberland.*	No. 88, West College
Joseph Cipriano Macro,	*Reynoldsville.*	No. 79, West College
Katherine Emma MacCart,	*Williamsport.*	Women's College
Carrie May Caskie,	*East Orange, N. J.*	Women's College

NAME.	RESIDENCE.	ROOM.
CLAY MONTGOMERY MCCORMICK,	*Lock Haven.*	St. George Street
CATHERINE FRASER MACLAGGAN,	*Lewisburg.*	South Third Street
JOSEPH FREDERICK MCMURRAY,	*South Williamsport.*	No. 28, West College
GRACE LENORE MEEK,	*Reynoldsville.*	Women's College
HENRY TAYLOR MEYER,	*Rebersburg.*	No. 4, West Wing
CARL LYON MILLWARD,	*Mt. Pleasant.*	No. 68, West College
MARY MONTFORT MOLL,	*Mahanoy City.*	Women's College
HOMER DERIAL PEASE,	*Scranton.*	No. 9, West Wing
BENJAMIN EARL PHILLIPS,	*Brinkerton.*	No. 1, East Wing
THOMAS BENJAMIN POWELL,	*Scranton.*	No. 52, West College
HELEN ELIZABETH RICKABAUGH,	*Altoona.*	Women's College
EDWIN WARREN RUMSEY,	*Lewisburg.*	South Seventh Street
SILAS HOWARD SCHOCH,	*Selins Grove.*	No. 35, West College
PENROSE HERR SHELLEY,	*Port Royal.*	No. 85, West College
HORACE JONES SHEPPARD,	*Cedarville, N. J.*	No. 11, East Wing
JAMES LEIGH SHIELDS,	*Lewisburg.*	North First Street
CHARLES CUSHMAN SHORKLEY,	*Lewisburg.*	South Third Street
JOHN DANIEL PECK SMITHGALL,	*Trout Run.*	St. George Street
CLARK SNYDER,	*Bloomsburg.*	No. 24, West Wing
DICKSON SHAW STAUFFER,	*Mt. Pleasant.*	No. 92, West College
HARRY THOMAS STEVENSON,	*Sharon.*	No. 31, West College

NAME.	RESIDENCE.	ROOM.
Frank Laton Stewart,	*Vandergrift.*	No. 11, East Wing
Miles Timlin,	*Lewisburg.*	Market Street
Sarah Ella Unger,	*Union Corner.*	Women's College
Abram Pierce Waltz,	*Elimsport.*	No. 8, West Wing
Courtney A. Wheeler,	*Titusville.*	No. 8, East Wing
Athol Vern Wise,	*New Millport.*	St. George Street
Chester Lyle Wynne,	*Warwick.*	No. 93, West College
Carl Shultz Yingling,	*Jersey City, N. J.*	No. 2, East Wing
Frank Landis Yost,	*Lock Haven.*	No. 94, West College

Seniors, 70.

THE JUNIOR CLASS.

CLASS OF 1907.

NAME.	RESIDENCE.	ROOM.
HOMER HASTINGS ADAMS,	*Grange.*	No. 29, East Wing
PERCY CHESTER ANDREWS,	*New Bethlehem.*	No. 26, West College
WENDELL MCMINN AUGUST,	*Brockwayville.*	No. 60, West College
CHARLES DARCIE BAER,	*Connellsvile.*	No. 17, West Wing
CLARENCE ANTHONY BERNHARD,	*Hoyt.*	No. 5, East Wing
CLARA BLACK,	*Union City.*	South Sixth Street
FREDERIC RUSSELL BOWER,	*Lewisburg.*	South Sixth Street
WALTER BURNETTE BRINKER,	*Mt. Pleasant.*	No. 31, East Wing
CHAUNCEY EUGENE BROCKWAY,	*Sharon.*	No. 67, West College
ERNEST SABIN BURROWS,	*Picture Rocks.*	No. 47, West College
LEVI CARL,	*Kerrsville.*	Lewisburg
PETER GARFIELD COBER,	*Pine Hill.*	No. 13, West Wing
WILLIAM FREDERIC ELSESSER,	*Philadelphia.*	No. 10, West Wing
GORDON EVANS,	*Scranton.*	No. 22, West Wing
ELLISON MCLEAN FASSETT,	*Canton.*	St. George Street
ANNA GALBRAITH,	*Williamsport.*	Women's College
MARY EARLEY GALBRAITH,	*Williamsport.*	Women's College
MABEL ELIZABETH GLEASON,	*Canton.*	Women's College
CHESTER HAROLD GODSHALL,	*Philadelphia.*	No. 46, West College

NAME.	RESIDENCE.	ROOM.
HAVARD GRIFFITH,	*Norristown.*	No. 8, West Wing
CHARLES GRIMMINGER,	*Altoona.*	No. 4, West Wing
HORACE LEROY HALL,	*Sharon.*	No. 48, West College
SPENSER TILLINGHAST HARRIS,	*Lewisburg.*	University Avenue
GEORGE WILLIAM HAWK,	*Tower City.*	No. 42, West College
F. LUTHER HEINZE,	*Ashland.*	No. 61, West College
AMMON GROSS HESS,	*Manheim.*	No. 5, East Wing
WILLIAM DUDLEY HINMAN,	*Monroeton.*	No. 15, East Wing
COIT ROSCOE HOECHST,	*East Berlin.*	No. 28, East Wing
THEODORE BLAND HOY,	*Montandon.*	Montandon
ELKANAH HULLEY,	*Chester.*	South Fourth Street
RUTH CUSHMAN JONES,	*Mahanoy City.*	Women's College
GEORGE WASHINGTON LEACH,	*New Bethlehem.*	St. George Street
CHARLES AUSTIN LEMMON,	*Honeybrook.*	No. 31, East Wing
MARGARET WYNONA LESHER,	*Northumberland.*	South Fifth Street
THOMAS BEEBER LOCKARD,	*Montoursville.*	No. 18, West Wing
CLARENCE EDWARD LONG,	*Shippensburg.*	South Seventh Street
ESAU HERBERT LOOMIS,	*Wilmington, Del.*	No. 29, East Wing
LAWRENCE OSCAR MANLEY,	*Canton.*	No. 5, West Wing
NORMAN EDWARD MCCALL,	*Falls Creek.*	No. 11, West Wing
ARTHUR EVRIL MCNINCH,	*Lewisburg.*	Lewisburg

NAME.	RESIDENCE.	ROOM.
JOHN LAMBERT MINOR,	*Kittanning.*	No. 3, East Wing
CALVIN OBERDORF,	*Sunbury.*	No. 19, East Wing
HELEN MAE OLDS,	*Elmhurst.*	University Avenue
JAMES THEODORE PARK,	*Montandon.*	Montandon
URSULA DAWES PARMLEY,	*Mahanoy City.*	Women's College
WARREN HARPER PETTEBONE,	*Dorranceton.*	No. 62, West College
GILBERT SOMERS PEREZ,	*New Orleans, La.*	No. 8, East Wing
CHARLES FRANCIS POTTER,	*Marlboro, Mass.*	St. George Street
WILLIAM WESLEY RAKER,	*Trout Run.*	No. 20, West Wing
HARRY DELROY REESE,	*Lairdsville.*	No. 20, West Wing
*MILTON LUTHER RIEMENSNYDER,	*Milton.*	Milton
GEORGE A. RIGGS,	*New Brighton.*	No. 13, West Wing
LEO LAWRENCE ROCKWELL,	*Monroeton.*	No. 15, East Wing
MARGARET ADELIA ROWLANDS,	*Homestead.*	Women's College
EDWIN WILDE SAYLOR,	*Philadelphia.*	No. 39, West College
JACOB HARRY SCHUCH,	*Cogan Station.*	No. 18, West Wing
THOMAS WAYNE SCHULTZ,	*Pennsdale.*	South Seventh Street
JAMES HARRY SHOEMAKER,	*Clarion.*	Market Street
F. REBECCA SHOVE,	*Wellsboro.*	Women's College
LILA MABEL SILL,	*Bradford.*	South Third Street

* Deceased

NAME.	RESIDENCE.	ROOM.
Frank Smigelsky,	*Mt. Carmel.*	No. 13, East Wing
Sydney Homer Smith,	*Lewisburg.*	Academy
Harry Garfield Snavely,	*Enhaut.*	No. 9, West College
Mary Georgiana Stanton,	*Chinchilla.*	South Third Street
Wilson Willard Staver,	*Williamsport.*	No. 25, West College
Joseph Nelson Weddle, Jr.,	*West Newton.*	No. 49, West College
Mary Sabine Weddle,	*West Newton.*	Women's College
Alfred Matthews Whitby,	*Pittsburg.*	No. 2, East Wing
Earle Wayne Whitney,	*Wellsboro.*	No. 19, West Wing
Frances Estelle Williams,	*Olyphant.*	Women's College
Jonathan Wolfe,	*Lewisburg.*	St. George Street
Fred Russel Zugschwert,	*Carnegie.*	No. 66, West College

Juniors, 72.

THE SOPHOMORE CLASS.

CLASS OF 1908.

NAME.	RESIDENCE.	ROOM.
George Foster Bailets,	*Sunbury.*	Sunbury
Harry Francis Bailey,	*Monongahela.*	No. 18 West College
Charles Baldwin,	*Jenningsville.*	No. 76, West College
Marshall Leon Benn,	*Coudersport.*	No. 63, West College
Walter Henry Bertin,	*Du Boistown.*	No. 11, West Wing
David Holden Binns,	*Donora.*	No. 16, West Wing
Elmer Keiser Bolton,	*Holmesburg.*	No. 32, West College
Winfield Scott Booth,	*Philadelphia.*	No. 32, West Wing
Dana Melissa Bower,	*Elkhart, Ind.*	Women's College
John Benjamin Boyer,	*Mandata.*	No. 19, West Wing
Benjamin Isaac Brody,	*Blossburg.*	No. 27, West Wing
Charles Lucas Bromley,	*Reading.*	No. 23, East Wing
Charles Rockwell Cole,	*Williamsport.*	No. 11, West College
Edward Carroll Condict,	*Trenton, N. J.*	No. 30, East Wing
Joseph Lewis Coon,	*Bald Mount.*	No. 3, West Wing
John Worth Cure,	*Jermyn.*	No. 26, East Wing
Roy Signor Daubert,	*Milton.*	Milton
William Stewart Duncan,	*Duncannon.*	No. 41, West College
Mary Evans,	*Freeland.*	Women's College

NAME.	RESIDENCE.	ROOM.
JOHN ROY FARR,	*Muncy.*	No. 2, West Wing
CHARLES DELANCEY FERGUSON,	*Canton.*	No. 5, West Wing
HELEN MARR FORREST,	*Lewisburg.*	North Second Street
HOLMES AUDUBON FRANK,	*Montandon.*	Montandon
HARRY STEPHEN FURST,	*Cedar Springs.*	No. 76, West College
HARRY CHESTER GARDNER,	*McKeesport.*	No. 61, West College
GEORGE ARTHUR GEBHARDT,	*Jermyn.*	No. 53, West College
JOHN VANDEVERE GIBNEY,	*Coatesville.*	No. 71, West College
DAVID ALBERT GREEN,	*Sciota.*	No. 17, East Wing
JAMES ANDREW GROFF,	*Lewisburg.*	Lewisburg
RALPH WOMELSDORF HALLER,	*Reading.*	No. 20, East Wing
BENJAMIN THOMAS HARRIS,	*Taylor.*	No. 51, West College
DAVID JACKSON HAWK,	*Tower City.*	No. 16, West College
JAMES FULLER HAYES,	*Montoursville.*	No. 21, West Wing
JOSEPH WELLS HENDERSON,	*Montgomery.*	No. 30, West College
JAMES HERB,	*Mt. Carmel.*	No. 54, West College
CHESTER PENN HIGBY,	*Philipsburg.*	No. 21, East Wing
ARTHUR BAER HINTERLEITER,	*Kutztown.*	No. 24, West College
JENNIE HOPWOOD,	*Plymouth.*	Women's College
JOHN CLYDE HOSTETTER,	*Williamsport.*	No. 6, West Wing
JOHN FARL HUMMER,	*Titusville.*	No. 21, East Wing

NAME.	RESIDENCE.	ROOM.
Edward Richardson Innes,	*Canton.*	No. 27, West College
Philip Musser Irey,	*Warren.*	No. 27, East Wing
Aelfric James,	*Berwick.*	No. 84, West College
Mae Elizabeth Jones,	*Franklin.*	Women's College
Margaret Ellen Kalp,	*Mt. Pleasant.*	Women's College
George Washington Kerschner,	*Trevorton.*	No. 30, West Wing
Horace Brown King,	*East Smethport.*	No. 56, West College
George Joseph Lawrence,	*Hazelton.*	No. 19, West Wing
Edwin Irland Lawshe,	*Lewisburg.*	Third and St. Louis Streets
James Lose, Jr.,	*Williamsport.*	No. 34, West College
Richard Nathan Mackey,	*Waverly.*	St. George Street
Edwin Reynolds Manchester,	*Scranton.*	No. 22, West Wing
Harvey Reuben Martz,	*Sunbury.*	Sunbury
Robert Bruce Morris,	*Rebersburg.*	No. 32, East Wing
Charles Augustus Nicely,	*Watsontown.*	Watsontown
Chester Arthur Niple,	*Sunbury.*	No. 19, East Wing
Walter Leroy Noll,	*Green Park.*	No. 6, West Wing
Elsie Owens,	*Lewisburg.*	South Sixth Street
Margaret Weddell Pangburn,	*Elizabeth.*	Women's College
David Jesse Park,	*Montandon.*	Montandon
Casimir Emile Perrier,	*Northampton, Mass.*	No. 8, East Wing

NAME.	RESIDENCE.	ROOM.
Luther Orville Piersol,	*Honeybrook.*	No. 28, East Wing
Beatrice Rae Richards,	*Slatington.*	Women's College
Olive Crozer Richards,	*Slatington.*	Women's College
William Wallace Ridge,	*Bloomsburg.*	No. 22, East Wing
Edwin Leroy Royer,	*Rebersburg.*	No. 15½, West Wing
Grace Virginia Royer,	*Lewisburg.*	Lewisburg
Barton Runyan Savidge,	*Turbotville.*	No. 87, West College
Marion Ellsworth Sayre,	*New Brighton.*	No. 22, East Wing
Edna Alice Seaman,	*Allentown.*	Women's College
James Francis Sheehan,	*Patton.*	No. 4, East Wing
Reuben Welty Shrum,	*Irwin.*	No. 65, West College
Joseph Riegel Shultz,	*Sunbury.*	Sunbury
Robert Jacobi Simington,	*Mooresburg.*	No. 80, West College
Wallace James Snyder,	*Elmhurst.*	No. 20, East Wing
Will Carleton Sprout,	*Picture Rocks.*	No. 15, West Wing
Anna Stage,	*Clearfield.*	Women's College
Donald Alexander Steele,	*Washington.*	No. 9, East Wing
Robert McCurdy Steele,	*Brockwayville.*	No. 14, West Wing
John Raymond Stratton,	*Blossburg.*	No. 33, West College
Henry Clyde Thompson,	*Irwin.*	No. 21, West Wing
Helen Fulkerson Tiffany,	*Pleasant Mount.*	Women's College

NAME.	RESIDENCE.	ROOM.
HARRY MORRISS WALTER,	*Harrisburg.*	No. 37, West College
MERLE B. WHITNEY,	*Buffalo, N. Y.*	No. 72, West College
JOHN J. WILLIAMS,	*Mt. Carmel.*	No. 31, West Wing
CHARLEMAGNE TOWER WOLFE,	*Lewisburg.*	North Third Street
VIOLETTA WOLFE,	*Rebersburg.*	Women's College

Sophomores, 87.

THE FRESHMAN CLASS.

CLASS OF 1909.

NAME.	RESIDENCE.	ROOM.
HENRY SNARE AFRICA,	*Huntingdon.*	University Avenue
CARLOS ALVAREZ,	*Quito, Ecuador.*	No. 7, West College
MARTHA BRINKERHOFF ALYEA,	*Rutherford, N. J.*	Women's College
WILLIAM SAMUEL BALDWIN,	*Jenningsville.*	No. 77, West College
MARINAS KATE BERRY,	*Goshen, Ind.*	Women's College
AMY VANESSA BOLLINGER,	*Reynoldsville.*	Women's College
HERMAN LONG BRANDT,	*Marietta.*	No. 81, West College
MINNIE ELIZABETH BROBST,	*Sunbury.*	Sunbury
JAMES CLYDE BROWN,	*Ramseyville.*	No. 14, West Wing
JOHN WARD BROWN,	*Boswell.*	No. 10, West Wing
MARY FRANCES BURGESS,	*Danbury, Conn.*	Women's College
ALFRED LEE CAREY,	*Glen Loch.*	No. 25, East Wing
ANNA ROBERTA CAREY,	*Glen Loch.*	Women's College
ANNE FRANCES CHAFFEE,	*Towanda.*	Women's College
MYRA MAGARGEE CHAFFEE,	*Towanda.*	Women's College
ANSLEY BAILEY CLAYPOOLE,	*Saltsburg.*	No. 16½, East Wing
HELEN DITTING CLIBER,	*Hollidaysburg.*	Women's College
ETHEL COCKBURN,	*Newberry.*	Newberry
MARGARET ANASTAS CURTIN,	*Dunmore.*	Women's College

NAME.	RESIDENCE.	ROOM.
WALTER ERNEST DEATS,	*Pittstown, N. J.*	No. 22, West College
HERMAN GROVE DIFENDERFER,	*Milton.*	Milton
BERTHA EACHES,	*Hightstown, N. J.*	Women's College
HARRY MARSHAL EAKELEY,	*Newark, N. J.*	No. 3, West Wing
CHARLES ELSON,	*Kane.*	No. 13, East Wing
NEWTON CROMWELL FETTER, JR.,	*Doylestown.*	No. 26, West Wing
HELGE FLORIN,	*Johnsonburg.*	No. 52, West College
ALICE ETHEL FOUST,	*Milton.*	Milton
CLOYD ALEXANDER FREDERICK,	*Mifflinburg.*	No. 14, East Wing
WALTER SYLVANUS FRICK,	*Lewisburg.*	North First Street
CHARLES CARPENTER FRIES,	*Reading.*	No. 23, East Wing
FRANK HERMAN FRITZ,	*Bloomsburg.*	No. 75, West College
ELLA FLANYGAN GARVIN,	*Marshalltown, Iowa.*	Women's College
FRANK KEMP GIBSON,	*Minersville.*	No. 26, West Wing
JOHN WILLIAM GRANDFIELD,	*Clarksboro, N. J.*	No. 24, East Wing
JAMES WILBUR GRIER,	*Wilkinsburg.*	No. 8, West College
PAUL BENEDICT GRIMINGER,	*Bedford.*	No. 18, East Wing
EARL GUILFORD GUYER,	*Williamsport.*	No. 17, West Wing
MATTHEW EMERSON HAGGERTY,	*Nauvoo.*	No. 77, West College
EUNICE VIRGINIA HALL,	*Chinchilla.*	Women's College
MILFORD SCOTT HALLMAN,	*Mapleshade.*	No. 12, West Wing

NAME.	RESIDENCE.	ROOM.
JOSEPHINE ADELAIDE HANKINS,	*Uniontown.*	Women's College
CLARA ELEANOR HARMAN,	*Montoursville.*	Women's College
KATHERINE ELIZABETH HEINEN,	*Milton.*	Milton
JOHN AMMON HESS,	*Winfield.*	Winfield
CHARLES EDGAR HILBISH,	*Northumberland.*	Northumberland
FRANK FREDERICK HOLLEREITH,	*New York City.*	No. 29, West Wing
CHARLOTTE HULLEY,	*Lewisburg.*	South Fourth Street
WILLIAM CURRIE HULLEY, JR.,	*Lewisburg.*	South Fourth Street
DONCASTER GEORGE HUMM,	*Punxsutawney.*	No. 16, East Wing
HAROLD L. HUNTER,	*Oil City.*	No. 82, West College
PAUL MCCLELLAN ISEMAN,	*Freeport.*	No. 74, West College
WALTER SILAS JACOBS, JR.,	*Falls Creek.*	No. 30, West Wing
WILMER C. JOHNSON,	*Downingtown.*	No. 27, East Wing
LEON ELLISON JONES,	*Buffalo, N. Y.*	No. 28, West Wing
JOHN KASE,	*Danville.*	No. 7, West Wing
LEWIS HAMSHER KNAPP,	*Bristol, Ind.*	No. 40, West College
CHARLES WYANT KRAMER,	*Oil City.*	No. 86, West College
JOHN ANTON LANDSRATH,	*Union City.*	No. 14, West College
ONESIMUS GEORGE LANGFORD,	*Factoryville.*	No. 26, East Wing
WILLIAM LEISER, 3D.,	*Lewisburg.*	North Fourth Street
MARTHA D. LEOPOLD,	*Milton.*	Milton

NAME.	RESIDENCE.	ROOM.
CHARLES JOHN LEPPERD,	*Duncannon.*	Lewisburg
WALTER LEWIS,	*Milton.*	Milton
CHARLES OSNER LONG,	*Sunbury.*	Sunbury
ANNA DENNY LYELL,	*Camden, N. J.*	Women's College
WALLACE MCLAUGHLIN,	*Philadelphia.*	No. 32, East Wing
CHARLES RICHARD MALLERY,	*Juniata.*	No. 10, East Wing
EUGENE LA SHELLE MARTIN,	*Franklin.*	South Fifth Street
JOHN HENRY MATHIAS,	*Philadelphia.*	No. 9, West Wing
EDNA LILLIAN MEACHAM,	*Montandon.*	Montandon
HANNAH BEMIS MERVINE,	*Milton.*	Milton
MARY MATILDA MEYER,	*Rebersburg.*	Women's College
DAVID WALTER MOORE,	*Milton.*	Milton
GERTRUDE ADELLA MYERS,	*Williamsport.*	Sixth and St. George Streets
CHARLES AUGUSTUS NYBERG,	*New York City.*	St. George Street
CHARLES O'BRIEN,	*Nanticoke.*	No. 51, West College
BENJAMIN MILES OGDEN,	*Clarion.*	No. 12, West Wing
FRANK M. OLENDORF,	*Athens.*	No. 12, East Wing
ALBERT WAFFLE OWENS,	*Lewisburg.*	South Sixth Street
GUY PAYNE,	*Titusville.*	No. 16, East Wing
ROY HILL PHILSON,	*Berlin.*	No. 28, West Wing
ALBERT THEODORE POFFENBERGER, JR.,	*Sunbury.*	No. 45, West College

NAME.	RESIDENCE.	ROOM.
William Harry Posten,	*Navesink, N. J.*	No. 17, West College
Neal Heath Price,	*Imlaystown, N. J.*	No. 24½, East Wing
Iola Beatrice Quandt,	*Altoona.*	Women's College
Frank William Reiter,	*Atlantic Highlands, N. J.*	No. 24, East Wing
Allan Gerald Ritter,	*South Williamsport.*	No. 11, West Wing
Stanley Herbert Rolfe,	*Nanticoke.*	No. 7, East Wing
Evan De La Plane Roser,	*LeGore, Md.*	No. 29, West Wing
Charles Stilwell Roush,	*Lewisburg.*	Lewisburg
Kleine Harlan Royer,	*Rebersburg.*	No. 15½, West Wing
Mabel Gardiner Russell,	*Norristown.*	Women's College
William Henry Russell,	*Bradford.*	No. 20, West College
Ida Mills Sames,	*Norristown.*	Women's College
Paul Jasper Sanders,	*Vicksburg.*	No. 14, East Wing
Preston Mettler Savidge,	*Sunbury.*	No. 70, West College
Percy Clyde Shade,	*Mooresburg.*	No. 17, West Wing
John Thomas Shirley,	*Clarion.*	No. 4, West College
E. Wharton Shortlidge,	*Landenburg.*	No. 25, East Wing
Mabel Slout,	*Newberry.*	Newberry
Harry Smith,	*Nanticoke.*	No. 7, East Wing
Harry Lee Smith,	*Lewisburg.*	Lewisburg
Howard Arthur Smith,	*Marlboro, N. J.*	Market Street

NAME.	RESIDENCE.	ROOM.
STANTON REINHART SMITH,	*Delaware Water Gap.*	No. 17, East Wing
MARGARET STEVENSON,	*McVeytown.*	Women's College
IRVIN ALLEN TIMLIN,	*Clarion.*	No. 4, West College
MANLEY TOLBERT,	*Athens.*	No. 12, East Wing
GERTRUDE LILLIAN TURNER,	*Philadelphia.*	Women's College
EUGENE VAN WHY,	*Stroudsburg.*	No. 17, East Wing
MYRTLE HARGRAVE WALKINSHAW,	*Greensburg.*	Women's College
SARA ELLEN WALTERS,	*Lewisburg.*	South Third Street
NALA DAMAYANTI WEBB,	*Rutherford, N. J.*	Women's College
GEORGE NORMAN WILKINSON,	*Williamsport.*	No. 32½, West Wing
WARREN TYSON WILSON,	*Du Bois.*	No. 27, West College
RALPH GEORGE WINEGARDNER,	*Muncy.*	No. 32½, East Wing
ROBERT CLARENCE WOODWARD,	*Muncy.*	No. 2, West Wing
FRANK SHULL WOOLSON,	*Fishing Creek. N. J.*	No. 30, East Wing

Freshmen, 117.

PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
Charles B. Adams,	*Butler.*	No. 6, West College
Elbur Harrison Ball,	*Mahanoy City.*	No. 15, West College
Robert William Baker,	*Philadelphia.*	No. 53, West College
Anna Bitler,	*Pottsgrove.*	Women's College
Harry Blair,	*Mifflinburg.*	No. 78, West College
Walter Madison Corll,	*Lewisburg.*	South River Road
Richard M. Darlington,	*Lewisburg.*	University Avenue
Lindley H. Dennis,	*Northumberland.*	Northumberland
Margaret Dougal,	*Milton.*	Milton
Stephen Gardner Duncan,	*Lewisburg.*	South Second Street
Ralph J. Freetly,	*Apollo.*	No. 3, East Wing
Boyd Morse Frymire,	*Watsontown.*	Watsontown
Edwin Wingert Gundy,	*Lewisburg.*	South River Road
Harold Burrows Henderson,	*Montgomery.*	No. 29, West College
William Currie Hulley, Sr.,	*Lewisburg.*	South Fourth Street
Theodore Kamensky, Jr.,	*Clearwater, Fla.*	No. 44, West College
Lulu Ethel Kline,	*Winfield.*	Winfield
Girton Keller Lenhart,	*Lewisburg.*	Lewisburg
Victor Baltzer Luchsinger,	*West Pittston.*	No. 95, West College
Jennie MacLaggan,	*Lewisburg.*	South Third Street

NAME.	RESIDENCE.	ROOM.
MARGARET EMMA MYERS,	*Williamsport.*	Sixth and St. George Streets
PAUL NOFTSKER,	*Shipppensburg.*	Lewisburg
BERTRAM HENRY OLMSTED,	*Emporium.*	No. 10, West College
FLORENCE EMILY REED,	*Williamsport.*	Williamsport
HARRY CLAUDE SEILER,	*Milton.*	Milton
WILLIAM M. SHUPE,	*Apollo.*	No. 12, West College
GERTRUDE STANNERT,	*Lewisburg.*	Market Street
CHARLES CARROLL WAGNER,	*Ottawa.*	No. 9, East Wing
JAMES A. WALL,	*Lewisburg.*	South First Street
MARGARET MALVINA WAGNER,	*Chambersburg.*	South Third Street
MELLIE ARMSTRONG WESTCOTT,	*Camden, N. J.*	Women's College
CHARLES HENRY WHITTAKER,	*Manhattan.*	Lewisburg
MARY ELIZABETH YOUNG,		South Seventh Street

Pursuing Select Studies, 33.

SUMMARY.

Graduate Students	111
The Senior Class	70
The Junior Class	72
The Sophomore Class	87
The Freshman Class	117
Pursuing Select Studies	33
Total in the College	490

ADMISSION OF STUDENTS.

TO FRESHMAN STANDING.

EXAMINATIONS.

Examinations for admission to the Freshman Class will be held on Monday of Commencement week. Candidates will assemble in Bucknell Hall at 8.30 A. M.

Similar examinations are also held on the day preceding the opening of each term. In special cases candidates may be examined and admitted at other times in the year.

There must be furnished to the President by the candidate satisfactory testimonials of good moral character, and, if from another college, a certificate of honorable dismission must be presented.

The required age for admission to the Freshman Class is fifteen years.

I. GENERAL REQUIREMENTS.

Candidates for admission to any of the Courses must pass examinations in the following:

1. ENGLISH.

a. Writing from dictation.

b. English Grammar.

c. Elements of Rhetoric—Invention, Style, and Punctuation.

d. A brief composition upon a subject assigned at the time of the examination. No candidate will be accepted in English whose work is notably defective in spelling, punctuation, idiom, or division into paragraphs.

e. **Reading.**—A certain number of books are set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to

be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of Rhetoric.

In 1904-08: Shakspere's Merchant of Venice, the Sir Roger De Coverley Papers in the Spectator, Goldsmith's Vicar of Wakefield, Irving's Goldsmith, Coleridge's Ancient Mariner, Scott's Ivanhoe and Lady of the Lake, Carlyle's Essay on Burns, Tennyson's Idylls of the King, Lowell's Vision of Sir Launfal, and George Eliot's Silas Marner.

f. **Study and Practice.**—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure.

The books set for this part of the examination will be:

In 1904-08: Shakspere's Macbeth and Julius Cæsar, Milton's Lycidas, Comus, L'Allegro, and Il Penseroso, Burke's Speech on Conciliation with America, and Macaulay's Essays on Milton, Addison, and Johnson.

The candidate is encouraged to do reading parallel and subsidiary to the books mentioned above; he is recommended to commit to memory as much English poetry as possible, and to pay close attention to the essentials of Grammar.

2. Mathematics.

a. Arithmetic, including the Metric System;

b. Algebra, including Quadratic Equations. The requirements in this study include the treatment of Radicals.

c. Plane Geometry.

3. Latin.

a. Latin Grammar;

b. Latin Prose Composition;

c. Four books of Cæsar's Commentaries.

4. History.
   a. History of Greece;
   b. History of Rome;
   c. History of the United States.

5. Science.
   a. Physiology;
   b. Physics;
   c. Geography—Descriptive and Political, and Physical.

6. Free-hand Drawing.

II. PARTICULAR REQUIREMENTS.

A. To enter the Classical Course, the candidate, in addition to the General Requirements, must pass examinations in the following:

1. Greek.
   a. Greek Grammar;
   b. Greek Prose Composition;
   c. Greek Reader;
   d. Four Books of Xenophon's Anabasis;
   e. Three Books of Homer's Iliad.

2. Latin.
   a. Seven Orations of Cicero;
   b. Six Books of the Æneid;
   c. Ovid, 1200 lines.

B. To enter the Latin division of the Philosophical Course, or the Course in Jurisprudence, the candidate, in addition to the General Requirements, must pass examination in the following:

1. Latin.
   a. Seven Orations of Cicero;
   b. Six Books of the Ænid.
   c. Ovid, 1200 lines.

2. Any six units selected from group F.

C. To enter the Greek division of the Philosophical Course, the candidate, in addition to the General Requirements, must pass examination in the following:

1. Greek.

a. Greek Grammar;
b. Greek Prose Composition;
c. Greek Reader;
d. Four Books of Xenophon's Anabasis;
e. Three Books of Homer's Iliad.

2. Any six units selected from group F.

D. To enter the General Science Course, the Course in Biology, or the Course in Chemistry, the candidate, in addition to the General Requirements, must pass examination in the following:

1. German or French.

The Grammar of the Language, Composition, and Translation at sight of easy prose.

2. Any nine units selected from Group F.

E. To enter the Course in Civil or Electrical Engineering, the candidate, in addition to the General Requirements, must pass examination in the following:

1. German or French.

The Grammar of the Language, Composition, and Translation at sight of easy prose.

2. Solid Geometry.

3. Any eight units selected from Group F.

F. Candidates for admission to the Philosophical Course or to the Scientific Course must present in the case of the former, six units, in case of the latter, nine units, and candidates for the Course in Civil or Electrical Engineering, eight units, selected from the following:

English Literature, History of Modern Europe, History of England, Civics; Zoölogy, Physiography, Botany, Geology, Astronomy; Solid Geometry, Chemistry with Laboratory Practice; French (three units); German (three units).

The time requirement for a unit is five hours a week for a term of twelve weeks.

ADMISSION ON CERTIFICATE.

Graduates of Bucknell Institute, in any of the Courses will be admitted to the Sophomore year of the corresponding Course in the College.

Graduates from Bucknell Academy, in any of the Courses, will be admitted to the corresponding Courses in the College upon the Diploma of the Academy.

Graduates of Pennsylvania State Normal Schools are admitted to the General Science Course without examination.

Certificates of the **College Entrance Examination Board** are accepted for admission, and also certificates of the State Board for Examination of Candidates for registration as Students of Law.

Students who have completed a course of study in **Preparatory and High Schools** of superior standing may be admitted upon the certificate of the Principal of the school from which they come without examination upon the subjects specified in the certificate.

All students received upon certificate are regarded as in conditional standing, and will not be matriculated unless their work during the first ten weeks of the term shows that their preparation has been sufficiently thorough.

SPECIAL STUDENTS.

Students who do not desire to take a full regular course can enter and select special shorter courses with the sanction of the Faculty; but in all cases, satisfactory examinations must be passed upon the subjects required for admission to the Freshman Class of the Course from which they intend to select.

ADVANCED STANDING.

I. General Requirements. A proportionate increase of age is required for admission to advanced classes over that required for admission to Freshman standing. Other general requirements are the same as for admission to the Freshman Class.

II. Particular Requirements. Candidates for admission to advanced classes are examined both as for admission to Freshman standing and also on the studies that have been pursued by the class which they desire to enter.

MATRICULATION.

Matriculation gives membership in the College and is a condition precedent to all degrees and honors as well as to honorable dismission. No student is admitted to matriculation until he has shown by his class work during at least ten weeks and by his deportment that he is worthy of membership in the College.

HONORABLE DISMISSION.

No person will be dismissed from the College as in good standing who leaves it while under censure; and papers of dismission given to those leaving while under a condition shall either be given as of a date anterior to the term during which that condition was incurred, or shall distinctly mention the condition; nor will honorable dismission be granted to any student who has not discharged all his pecuniary obligations to the Institution. No papers of dismission will be granted to a student who has not completed one year of work.

No certificate or statement as to work done in his department is granted by any professor or instructor to an undergraduate.

COURSES OF STUDY.

The Bucknell College offers four Courses of study leading to degrees in Arts, Philosophy, and Science. Each of the Courses extends through four years. For the Bachelor's degree, thirty-six courses, each of one term five hours a week must be presented, as well as the prescribed work in oral and written Expression, the former of which extends through two years of the course and the latter through four years, and also twelve lecture courses.

I. The Classical Course, leading to the degree of Bachelor of Arts, aims to furnish a liberal education in classical and modern Literature, in the Sciences and Arts. Candidates for the degree of Bachelor of Arts must present at least three courses in German and French.

II. The Philosophical Course, with Latin or Greek in each of its two divisions, aims to furnish a thorough training in advanced studies to those who desire to pursue but one of the Ancient Languages. Those who have completed the studies of the Course, including not less than four courses of German and French, are admitted to the degree of Bachelor of Philosophy. But a candidate who offers eight College courses in either of the Ancient Classical languages may receive the degree of Bachelor of Arts.

III. The General Science Course, leading to the degree of Bachelor of Science, is substantially the same as the Philosophical Course, with the substitution of additional Modern Language and Scientific Studies for Latin and Greek. Candidates for the degree of Bachelor of Science must present at least one year of German or French for admission and at least four courses of college work in German and French as requisites for graduation.

IV. The Course in Jurisprudence, leading to the Degree of Bachelor of Arts, covers four years of work in Law, Political Science, Economics, Philosophy, Literature, and Mathematics. No one is graduated from this Course if his average standing for the Course is below nine.

V. The Course in Biology, leading to the Degree of Bachelor of Science in Biology, covers four years of work in Biology, Chem-

istry, Physics, Mathematics, and Literature. No one is admitted to the Degree of Bachelor of Science in Biology if his average standing for the Course is below nine.

VI. The Course in Chemistry, leading to the Degree of Bachelor of Science in Chemistry covers four years of work in Chemistry, Physics, Mathematics, Biology, and Literature. No one is admitted to the Degree of Bachelor of Science in Chemistry if his average standing for the Course is below nine.

The requirements in Modern Language are the same for the Course in Jurisprudence as for the Philosophical Course; and for the Course in Biology and for that in Chemistry they are the same as for the Course in General Science.

VII. The Course in Civil Engineering, leading to the degree of Bachelor of Science in Civil Engineering, covers four years of work in Pure and Applied Mathematics, Chemistry, Technology, and English. No one is admitted to the Degree of Bachelor of Science in Civil Engineering if his average standing for the Course is below nine.

VIII. The Course in Electrical Engineering, leading to the degree of Bachelor of Science in Electrical Engineering, opened for Freshmen with the beginning of the school year, September 21, 1905, covers four years of work in Pure and Applied Mathematics, Chemistry, Physics, Electro-technics, and Language. No one will be admitted to the degree of Bachelor of Science in Electrical engineering if his average standing for the Course is below nine.

IX. Advanced Courses in Arts and in Science have been established, leading to the degree of Master of Arts, or Master of Science.

The Master's degree is conferred only on condition that the candidate has completed a Course of Liberal study, approved by the Faculty, sufficient in amount to constitute a fifth year of college work. Particulars may be learned by addressing the President.

CURRICULA.

I. THE CLASSICAL COURSE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

I. Term— Geometry, Algebra, Cicero de Senectute and Livy, Odyssey, Greek Prose Composition, — Rhetoric, Oratory.

II. Term— Algebra, Plane Trigonometry, Livy, Lysias' Orations, Greek Testament, — Rhetoric, Oratory.

III. Term— Spherical Trigonometry, Analytical Geometry, Velleius and Pliny, Plato's Apology, Greek Testament, — Rhetoric, Oratory.

SOPHOMORE YEAR.

I. Term—Rhetoric, Horace, — Linear Perspective, Oratory.

Elective Studies:

German, Greek History, — *Chemistry, Surveying.*

II. Term—English Literature, Demosthenes, — Astronomy, Oratory.

Elective Studies:

Roman History, Latin, 6, German, Physiology. — *Logic, Chemistry, Differential Calculus,*

III. Term—German, History of Art.

Elective Studies:

English Oratory,
Public Address,
Argumentation,
Juvenal,
American Civics,
Anthropology,
Botany,
Chemistry,
Integral Calculus,
Elements of Law.

JUNIOR YEAR.

I. Term—Psychology, Greek Literature,
French, Thesis.

Elective Studies:

Æschylus and Sophocles,
Latin, 8,
English, 6 or 7,
Practical Oratory,
German,
Spanish,
History, 10,
History, 16,
Economics,
Sociology,
Physiological Psychology,
Biology,
Embryology,
Sanitary Science,
Chemistry,
Higher Analytics,
Mechanics,
Geology.

II. Term—Ethics, Geology,
History of Philosophy, Thesis.

Elective Studies:

Euripides,
Latin Poets,
German,
French,
Spanish,
English Bible,
History, 1,
History, 17,
Municipal Sociology,
Money and Banking,
Municipal Government,
Advanced Logic,
Advanced Composition,
Interpretative Reading,
Comparative Psychology,
Zoölogy of Invertebrates,
Animal Histology,
Human Anatomy,
Chemistry,
English, 8,
Mathematics, 11,
Physics.

III. Term—Theism, History of Education,
Thesis.

ELECTIVE STUDIES:

Greek, 8,	*Railroad Transportation*,
Greek, 13,	*Zoölogy of Vertebrates*,
Latin, 9,	*Cryptogamic Botany*,
Journalism,	*Bacteriology*,
German,	*Neurology*,
French,	*Chemistry*,
Spanish,	*Astronomy*,
English Bible,	*Physics*.

SENIOR YEAR.

I. TERM—Social Ethics, Thesis.

ELECTIVE STUDIES:

Greek Testament,	*History*, 11,
Latin, 10,	*International Law*,
Anglo-Saxon,	*Comparative Anatomy*,
English, 4 or 9,	*Chemistry*,
German,	*Geology*,
Medieval History,	*Geodetic Astronomy*,
School Administration,	*Advanced Mechanics*.

II. TERM—Political Ethics, Thesis.

ELECTIVE STUDIES:

Demosthenes de Corona,	*Philosophy of Mind*,
Greek Testament,	*History of Europe*,
Latin, 11,	*Comparative Politics*,
Roman Life,	*Public Finance*,
Chaucer,	*Chemistry*,
French,	*Economic Geology*,
Psychology of Education,	*Advanced Physics*.

III. TERM—Literature, Thesis.

ELECTIVE STUDIES:

Plato, Phaedo,	*History of Europe*, 9,
Greek Testament,	*Private Corporations*,
Latin, 12,	*Constitutional Law*,
German,	*Roman Law*,
Shakspere,	*Chemistry*,
Metaphysics,	*Advanced Physics*.
Philosophy of Education.	

Seniors may take any of the Electives of the Junior Year for corresponding terms.

II. THE PHILOSOPHICAL COURSE.

Leading to the Degree of Bachelor of Philosophy.

A. Latin Division.

FRESHMAN YEAR.

I. Term— { Geometry, Algebra, Cicero de Senectute and Livy, German, } Rhetoric, Oratory.

II. Term— { Algebra, Plane Trigonometry, Livy, German, } Rhetoric, Oratory.

III. Term— { Spherical Trigonometry, Analytical Geometry, Velleius and Pliny, French, } Rhetoric, Oratory.

SOPHOMORE YEAR.

I. Term—Rhetoric, Horace, Linear Perspective, Oratory.

Elective Studies:

German, *Greek History,* *Chemistry,* *Surveying.*

II. Term—English Literature, Astronomy. Oratory.

Elective Studies:

Roman History, *Latin, 6,* *German,* *French,* *Physiology,* *Chemistry,* *Differential Calculus,* *Logic.*

III. Term—American Civics, History of Art.

Elective Studies:

English Oratory,
Public Address,
Juvenal,
German,
French,
Anthropology,
Elementary Law,
Botany,
Chemistry,
Integral Calculus.

JUNIOR YEAR.

I. Term—*Psychology,* Greek Literature,
Thesis.

Elective Studies:

Latin, 8,
German,
French,
Spanish,
English, 6 or 7,
Practical Oratory,
History, 10,
History, 16,
Sociology,
Economics,
Physiological Psychology,
Biology,
Embryology,
Sanitary Science,
Chemistry,
Higher Analytics,
Mechanics.

II. Term—Ethics, Geology,
History of Philosophy, Thesis.

Elective Studies:

Latin Poets,
English, 8,
German,
French,
Spanish,
English Bible,
History, 1,
History, 17,
Money and Banking,
Municipal Government,
Advanced Composition,
Interpretative Reading,
Comparative Psychology,
Zoölogy of Invertebrates,
Animal Histology,
Human Anatomy,
Chemistry,
Mathematics, 11,
Physics,
Advanced Logic,
Municipal Government.

III. Term—Theism, History of Education,
Thesis.

ELECTIVE STUDIES:

Greek, 8,	*Railroad Transportation*,
Latin, 9,	*Cryptogamic Botany*,
Journalism,	*Zoölogy of Vertebrates*,
German,	*Bacteriology*,
French,	*Neurology*,
Spanish,	*Chemistry*,
English Bible,	*Astronomy*,

Physics.

SENIOR YEAR.

I. TERM—Social Ethics, Thesis.

ELECTIVE STUDIES:

Latin, 10,	*International Law*,
German,	*Comparative Anatomy*,
Anglo-Saxon,	*Chemistry*,
English, 4 or 9,	*Geology*,
Medieval History,	*Geodetic Astronomy*,
History, 11,	*Advanced Mechanics*,

School Administration.

II. TERM—Political Ethics, Thesis.

ELECTIVE STUDIES:

Latin, 11,	*Roman Life*,
Chaucer,	*Comparative Politics*,
German,	*Public Finance*,
French,	*Chemistry*,
Philosophy of Mind,	*Advanced Physics*,
History of Europe,	*Economic Geology*,

Psychology of Education.

III. TERM—Literature, Thesis.

ELECTIVE STUDIES:

Latin, 12,	*Constitutional Law*,
German,	*Roman Law*,
Shakspere,	*Private Corporations*,
Metaphysics,	*Chemistry*,
History of Europe,	*Advanced Physics*,
Comparative Politics,	*Philosophy of Education.*

Seniors may take any of the Electives of the Junior Year for corresponding terms.

THE PHILOSOPHICAL COURSE.

B. Greek Division.

FRESHMAN YEAR.

I. Term—	Geometry, Algebra, Odyssey, German,	Rhetoric, Oratory.
II. Term—	Algebra, Plane Trigonometry, Lysias' Orations, Greek Testament, German,	Rhetoric, Oratory.
III. Term—	Spherical Trigonometry, Analytical Geometry, Plato's Apology, Greek Testament, French,	Rhetoric, Oratory.

SOPHOMORE YEAR.

I. Term—Rhetoric. Linear Perspective,
Greek History, Oratory.

Elective Studies:

German, *Chemistry,*
Surveying.

II. Term—English Literature, Astronomy,
Demosthenes, Oratory.

Elective Studies:

German, *Physiology,*
French, *Chemistry,*
Roman History, *Differential Calculus,*
Logic.

III. Term—American Civics, History of Art.

Elective Studies:

English Oratory, *Elements of Law,*
Public Address, *Botany,*
Argumentation, *Anthropology.*
German, *Chemistry,*
French, *Integral Calculus,*

JUNIOR YEAR.

I. Term—Psychology, Greek Literature,
Thesis.

Elective Studies:

Æschylus and Sophocles, *Sociology,*
German, *Economics,*
French, *Physiological Psychology,*
Spanish, *Biology,*
English, 6 or 7, *Embryology,*
Practical Oratory, *Sanitary Science,*
History, 10, *Chemistry,*
History, 16, *Higher Analytics,*
Mechanics.

II. Term—Ethics, Geology,
History of Philosophy, Thesis.

Elective Studies:

Euripides, *Advanced Logic,*
German, *Advanced Composition,*
French, *Interpretative Reading,*
Spanish, *Comparative Psychology,*
English, 8, *Zoölogy of Invertebrates,*
English Bible, *Animal Histology,*
History, 1, *Human Anatomy,*
History, 17, *Chemistry,*
Money and Banking, *Mathematics,* 11,
Municipal Government, *Physics,*
Municipal Sociology.

III. Term—Theism, History, of Education,
Thesis.

ELECTIVE STUDIES:

Greek, 8,	*Railroad Transportation*,
Greek, 13,	*Zoölogy of Vertebrates*,
Journalism,	*Cryptogamic Botany*,
German,	*Bacteriology*,
French,	*Neurology*,
Spanish,	*Chemistry*,
English Bible,	*Astronomy*,

Physics.

SENIOR YEAR.

I. TERM—Social Ethics, Thesis.

ELECTIVE STUDIES:

Greek Testament,	*International Law*,
English, 4 or 9,	*Comparative Anatomy*,
Anglo-Saxon,	*Chemistry*,
German,	*Advanced Mechanics*,
Medieval History,	*Geology*,
History, 11,	*Geodetic Astronomy*.

School Administration.

II. TERM—Political Ethics, Thesis.

ELECTIVE STUDIES:

Demosthenes de Corona,	*Roman Life*,
Greek Testament,	*Comparative Politics*,
Chaucer,	*Public Finance*,
French,	*Chemistry*,
Philosophy of Mind,	*Advanced Physics*,
History of Europe, 8,	*Economic Geology*.

Psychology of Education.

III. TERM—Literature, Thesis.

ELECTIVE STUDIES:

Plato's Phaedo,	*History of Europe*, 9,
Greek Testament,	*Constitutional Law*,
German,	*Roman Law*,
Shakspere,	*Private Corporations*,
Metaphysics,	*Chemistry*,

Philosophy of Education.

Seniors may take any of the Electives of the Junior Year for corresponding terms.

III. THE GENERAL SCIENCE COURSE.

Leading to the Degree of Bachelor of Science.

FRESHMAN YEAR.

I. Term— Geometry, Algebra, Latin, German, II, — Rhetoric, Oratory.

II. Term— Algebra, Plane Trigonometry, Latin, German, II, — Rhetoric, Oratory.

III. Term— Spherical Trigonometry, Analytical Geometry, Latin, French, — Rhetoric, Oratory.

SOPHOMORE YEAR.

I. Term—Rhetoric, Oratory. — Linear Perspective,

Elective Studies:

Chemistry, Horace, German, — *Greek History, Surveying,*

II. Term—English Literature, Oratory. — Astronomy,

Elective Studies:

German, French, Roman History, Logic. — *Physiology, Chemistry, Differential Calculus,*

III. Term—American Civics, — History of Art.

ELECTIVE STUDIES:

English Oratory, *French,*
Public Address, *Elements of Law,*
Argumentation, *Anthropology,*
Juvenal, *Botany,*
German, *Chemistry,*
Integral Calculus.

JUNIOR YEAR.

I. TERM—Psychology, Greek Literature,
Thesis.

ELECTIVE STUDIES:

English, 6 or 7, *Economics,*
Practical Oratory, *Physiological Psychology,*
German, *Zoölogy of Vertebrates,*
French, *Embryology,*
Spanish, *Sanitary Science,*
History, 10, *Chemistry,*
History, 16, *Higher Analytics,*
Sociology, *Mechanics,*

II. TERM—Ethics, Geology,
History of Philosophy, Thesis.

ELECTIVE STUDIES:

English, 8, *Advanced Composition,*
German, *Interpretative Reading,*
French, *Comparative Psychology,*
Spanish, *Zoölogy of Vertebrates,*
English Bible, *Animal Histology,*
History, 1, *Human Anatomy,*
History, 17, *Chemistry,*
Money and Banking, *Mathematics,* 11,
Municipal Government, *Physics,*
Municipal Sociology.

III. TERM—Theism, History of Education,
Thesis.

ELECTIVE STUDIES:

Greek, 8,	*Cryptogamic Botany*,
Journalism,	*Biology*,
German,	*Bacteriology*,
French,	*Neurology*,
Spanish,	*Chemistry*,
English Bible,	*Astronomy*,
Railroad Transportation,	*Physics*.

SENIOR YEAR.

I. TERM—Social Ethics, Thesis.

ELECTIVE STUDIES:

Anglo-Saxon,	*International Law*,
English, 4 or 9,	*Comparative Anatomy*,
German,	*Chemistry*,
French,	*Geology*,
Medieval History,	*Geodetic Astronomy*,
History, 11,	*School Administration*.

II. TERM—Political Ethics, Thesis.

ELECTIVE STUDIES:

German,	*Roman Life*,
French,	*Comparative Politics*,
Chaucer,	*Public Finance*,
Philosophy of Mind,	*Chemistry*,
History of Europe,	*Economic Geology*,
Psychology of Education.	

III. TERM—Literature, Thesis.

ELECTIVE STUDIES:

German,	*Constitutional Law*,
French,	*Roman Law*,
Shakespere,	*Private Corporations*,
Metaphysics,	*Chemistry*,
History of Europe,	*Philosophy of Education*.

Seniors may take any of the Electives of the Junior Year for corresponding terms.

IV. THE COURSE IN JURISPRUDENCE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

I. Term— { Geometry, / Algebra, } Rhetoric, Oratory.
Cicero de Senectute and Livy,
{ Odyssey, / Greek Prose Composition } or German,

II. Term— { Plane Trigonometry, / Algebra, } Rhetoric, Oratory.
Livy,
{ Lysias' Orations, / Greek Testament, } or German,

III. Term—American Civics, Rhetoric, Oratory.
Velleius and Pliny,
{ Plato's Apology, / Greek Testament, } or French,

SOPHOMORE YEAR.

I. Term—Rhetoric, Political Science, Oratory.
Horace,

Elective Studies:

Greek History, *Surveying,*
History, 16, *Chemistry,*
German.

II. Term—English Literature, Political Science, Oratory.
Logic,

Elective Studies:

Demosthenes, *History,* 17,
Quintilian, *German,*
Roman History, *French.*

III. Term—Elements of Law, Political Science.
American Constitutional Law,

Elective Studies:

Juvenal, *English Oratory,*
German, *Argumentation,*
French, *Public Address.*

JUNIOR YEAR.

I. Term—Psychology, Blackstone B. I.
Economics, Thesis.

Elective Studies:

Real Property, Blackstone B. II., *Greek Tragedy,*
Constitutional Limitations, *English Literature,*
English History, 10 or 11, *Practical Oratory,*
Sociology, *Modern Language.*

II. Term—Ethics, Blackstone B. III.,
Money and Banking, Thesis.

Elective Studies:

Personal Property, *English Bible,*
Municipal Government, *Greek,*
History, *Latin,*
Logic, Course 2, *English Literature,*
Advanced Composition, *Modern Language,*
Interpretative Reading.

III. Term—Theism, Blackstone B. IV.,
Private Corporations, Thesis.

Elective Studies:

Equity, *Greek,*
English Bible, *Latin,*
Modern Language.

SENIOR YEAR.

I. Term—International Law, Social Ethics.
Thesis.

ELECTIVE STUDIES:

Contracts,	*English Literature,*
Medieval History,	*Latin,*
Anglo-Saxon,	*Modern Language.*

II. TERM—Comparative Politics, Political Ethics,
Thesis.

ELECTIVE STUDIES:

Evidence,	*Demosthenes de Corona,*
Public Finance,	*Latin,* 11,
History of Modern Europe,	*Chaucer,*
Philosophy of Mind,	*Modern Language.*

III. TERM—Roman Law, Literature,
Thesis.

ELECTIVE STUDIES:

Pleading,	*Shakspere,*
Railroad Transportation,	*Plato's Phaedo,*
Metaphysics,	*Latin,* 12,
History, 9,	*Modern Language.*

Seniors may take any of the Electives of the Junior Year for corresponding terms.

V. THE COURSE IN BIOLOGY.

Leading to the Degree of Bachelor of Science in Biology.

FRESHMAN YEAR.

I. TERM— { Geometry, Algebra, General Chemistry, *Latin* or *German,* 11, } Rhetoric, Oratory.

II. TERM— { Algebra, Trigonometry, General Chemistry, *Latin* or *German,* 11, } Rhetoric, Oratory.

III. Term— { Trigonometry, Analytical Geometry, Qualitative Chemistry, *Latin* or *French*, } Rhetoric, Oratory.

SOPHOMORE YEAR.

I. Term—Biology, Quantitative Chemistry, Rhetoric, Drawing, Oratory.

II. Term—Invertebrate Zoölogy, Physiology, Drawing, Oratory.

Elective Studies:

History, *Modern Language*, *English Literature*, *Chemistry*.

III. Term—Vertebrate Zoölogy, Botany, Drawing.

Elective Studies:

Chemistry, *Anthropology*, *Modern Language*. *Civics*, *English Literature*,

JUNIOR YEAR.

I. Term—Psychology, Laboratory Physiology, Mechanics, Scientific German, Thesis.

II. Term—Comparative Psychology, Physics, Scientific German, Thesis.

Elective Studies:

Sanitary Science, *History*, *Ethics*, *Literature*, *Modern Language*, *Metallurgy*.

III. Term—Entomology, Physics, Scientific German, Thesis.

ELECTIVE STUDIES:

Toxicology, *English Literature,*
Astronomy, *Modern Language,*
Theism.

SENIOR YEAR.

I. TERM—Comparative Osteology, Social Ethics,
Embryology, Thesis.

ELECTIVE STUDIES:

Geology, *History,*
Economics, *Modern Language,*
Chemistry.

II. TERM—Histology, Political Ethics,
Thesis.

ELECTIVE STUDIES:

Human Anatomy, *History,*
Economic Geology, *English Bible,*
Money and Banking, *Modern Language,*
Chemistry.

III. TERM—Neurology, Forestry,
Bacteriology, Thesis.

ELECTIVE STUDIES:

Chemistry, *Literature,*
Materia Medica, *English Bible,*
Railroad Transportation, *Modern Language.*

Seniors may take any of the Electives of the Junior Year for corresponding terms.

VI. THE COURSE IN CHEMISTRY.

Leading to the Degree of Bachelor of Science in Chemistry.

FRESHMAN YEAR.

I. TERM—Descriptive Chemistry, 1,
Geometry, Algebra, *Latin* or *German, II,* — Rhetoric, Oratory.

II. TERM—Descriptive Chemistry, 2,
Algebra, Trigonometry, *Latin* or *German, II,* — Rhetoric, Oratory.

III. TERM—Qualitative Chemistry,
Trigonometry, Analytical Geometry, *Latin* or *French,* — Rhetoric, Oratory.

SOPHOMORE YEAR.

I. TERM—Quantitative Chemistry, Biology, Rhetoric, — Drawing, Oratory.

II. TERM—Quantitative Chemistry, Invertebrate Zoölogy, — Drawing, Oratory.

ELECTIVE STUDIES:

Physiology, *Differential Calculus,* — *English Literature,* *Modern Language.*

III. TERM—Quantitative Chemistry, Vertebrate Zoölogy, — Drawing.

ELECTIVE STUDIES:

Botany, *Integral Calculus,* *Modern Language.* — *Civics,* *Literature,*

JUNIOR YEAR.

I. Term—Organic Chemistry, Scientific German,
Mechanics, Thesis.

Elective Studies:

Toxicology, *History,*
Psychology, *Modern Language.*
Sociology,

II. Term—Organic Chemistry, Scientific German,
Physics, Thesis.

Elective Studies:

Metallurgy, *Ethics,*
Comparative Psychology, *History,*
Sanitary Science, *Modern Language.*

III. Term—Organic Chemistry, Scientific German,
Physics, Thesis.

Elective Studies:

Agricultural Chemistry, *Entomology,*
Astronomy, *Theism,*
Modern Language.

SENIOR YEAR.

I. Term—Physical Chemistry, Social Ethics,
Geology, Thesis.

Elective Studies:

Embryology, *History,*
Economics, *Modern Language.*

II. Term—Physical Chemistry, Political Ethics,
Thesis.

Elective Studies:

Economic Geology, *History,*
Histology, *Modern Language.*
Money and Banking,

III. Term—Physical Chemistry, Forestry.

Elective Studies:

Bacteriology, *Railroad Transportation,*
Constitutional Law, *Modern Language.*

Seniors may take any of the Electives of the Junior Year for corresponding terms.

VII. THE COURSE IN CIVIL ENGINEERING.

Leading to the degree of Bachelor of Science in Civil Engineering.

FRESHMAN YEAR.

I. Term—Advanced Algebra, 3, Rhetoric,
Drawing, Oratory.
German, II,

II. Term—Trigonometry, 7b, Rhetoric,
Drawing, Oratory.
German, II,

III. Term—Analytical Geometry, 9b, Rhetoric,
Drawing, Oratory.
French,

SOPHOMORE YEAR.

I. Term—Rhetoric, Geodesy,
Surveying, Oratory.
General Chemistry,

II. Term—Differential Calculus, Geodesy,
{ Descriptive Geometry, Oratory.
{ Machine Design.
General Chemistry,

III. Term—Integral Calculus, History of Art.
Railroad Surveying,
Qualitative Chemistry,

JUNIOR YEAR.

I. Term—Mechanics, Strength of Materials, Roads and Pavements, — Architectural Design, Thesis.

II. Term—Physics, Masonry and Foundations, Metallurgy, — Architectural Design, Thesis.

III. Term—Physics, Astronomy, { Water Supply, Sanitary Engineering, } — Geology, Thesis.

SENIOR YEAR.

I. Term—Geodetic Astronomy, Bridges and Buildings, *Geology* or *Advanced Mechanics,* — Social Ethics, Thesis.

II. Term—Hydraulics and Hydraulic Motors, Bridges and Buildings, *Economic Geology,* or *Advanced Physics.* — Political Ethics, Thesis.

III. Term— { Mine Surveying, City Surveying, } Bridges and Buildings, *Railroad Transportation,* or *Advanced Physics.* — Contracts and Specifications, Thesis.

VIII. COURSE IN ELECTRICAL ENGINEERING.

Leading to the degree of Bachelor of Science in Electrical Engineering.

FRESHMAN YEAR.

I. TERM—Advanced Algebra, 3, Drawing, German, II, Rhetoric, Oratory.

II. TERM—Trigonometry, 7b, Drawing, German, II, Rhetoric, Oratory.

III. TERM—Analytical Geometry, 9b, Drawing, French, Rhetoric, Oratory.

SOPHOMORE YEAR.

I. TERM—Rhetoric, Mechanics, General Chemistry, Shopwork, Oratory.

II. TERM—Differential Calculus, Mechanics, General Chemistry, Shopwork, Oratory.

III. TERM—Integral Calculus. Physics, Qualitative Chemistry, Shopwork.

JUNIOR YEAR.

I. TERM—Electrical Measurements, Advanced Mechanics, Strength of Materials, Machine Design and Tools, Thesis.

II. TERM—Direct Current Machinery, Advanced Physics, Metallurgy, Machine Design and Tools, Thesis.

III. Term—Alternating Current Machinery, Gas, Oil, and Air Engines,
Advanced Physics,
Boilers and Steam Engines, Thesis.

SENIOR YEAR.

I. Term—Design of Electrical Machinery, Social Ethics,
Electrical Generating Stations and Transmission, Thesis.
Graphical Analysis of Structures,

II. Term—Design of Electrical Machinery, Political Ethics,
Telegraphs, Telephones, Signaling Apparatus, Thesis.
Hydraulic Motors,

III. Term—Electric Lighting, Contracts and Specifications,
Electric Railways,
Water Supply and Sanitary Engineering, Thesis.

DEPARTMENTS OF INSTRUCTION.

The method of instruction in the College is varied according to the nature of the subject. Each Professor has his individual mode of imparting knowledge, and this, in the result, is advantageous to the learner. In general, the aim is to discuss each branch as the subject-matter requires, yet all are presented practically, comparatively, and historically, with the view of leading the student to the apprehension of the subject as a whole and in its organic relations. The range and character of the instruction can be gathered from the following account of the different departments.

I. DEPARTMENT OF PHILOSOPHY

JOHN HOWARD HARRIS, LL. D.,
PROFESSOR OF PSYCHOLOGY AND ETHICS.

CALVIN AURAND HARE, A. M.,
PROFESSOR OF CHRISTIAN EVIDENCES AND LOGIC.

THOMAS ADDIS EDWARDS, A. M.,
PROFESSOR OF PEDAGOGY.

The studies in this department embrace Psychology, Philosophy, Ethics, Theism, and Pedagogy.

1. **Psychology, Descriptive and Explanatory.** Required Course. Juniors. First term, five hours.

2. **Physiological and Experimental Psychology.** Open to Seniors and Juniors. First term, five hours.—PROFESSOR DAVIS.

3. **Lotze, Grundzuege der Psychologie.** Honor for Seniors and Juniors.

4. **Philosophy of Mind.** Elective to Seniors and Juniors. Second term, five hours.

5. **Logic, Deductive and Inductive.** Second term, five hours. —PROFESSOR HARE.

6. **Logical Theories.** Honor Course, Seniors and Juniors. Second term, one hour. Prerequisite Course 1.—PROFESSOR HARE.

7. **Scientific Method.** Seniors and Juniors. Second term, five hours.—PROFESSOR HARE.

8. **Argumentation.** Baker's *Principles of Argumentation.* Briefs, forensics and oral discussion. Third term. (Rhetoric 3.) PROFESSOR PHILLIPS.

9. **History of Philosophy.** Lectures. Required of Juniors. Second term, two hours.

10. **Greek Philosophy** (Greek, 10). Elective to Seniors and Juniors.—PROFESSOR HAMBLIN.

11. **Roman Philosophy** (Latin, 15). Elective to Seniors and Juniors.—PROFESSOR ROCKWDOD.

12. **Modern Philosophy,** Weber. Honor Course, Seniors and Juniors. Third term.

13. **Ethics.** Required of Juniors. Second term, four hours.

14. **Social Ethics.** Required of Seniors. First term, one hour.

15. **Political Ethics.** Required of Seniors. Second term, one hour.

16. **Practical Ethics.** Lectures.—DR. WHITMAN.

17. **Philosophy of Religion.** Required of Juniors. Third term, five hours.

18. **Evidences of Christianity.** Elective to Seniors.—PROFESSOR HARE.

EDUCATION.

19. **History of Education.** A general sketch of educational Theory and Practice in Ancient and Modern times. Lectures. Required of Juniors. Third term, one hour.—PROFESSOR EDWARDS.

20. **Psychology of Education.** Based on Harris' Psychologic Foundations of Education. Elective to Seniors and Juniors. Second term, five hours.—PROFESSOR EDWARDS.

21. **Comparative and Child Psychology.** Text-book, reports, and discussions. Full course. Elective to Seniors and Juniors. Second term, five hours.—PROFESSOR DAVIS.

22. **Philosophy of Education.** Based on Horne's Philosophy

of Education. Elective to Juniors and Seniors. Third term, five hours.—Professor Edwards.

23. **School Administration.** High School organization, function and management; discussion of methods; survey of College Entrance Requirements. First term, five hours.—Professor Edwards.

24. **Teachers' Course in American History.** Methods of teaching History with special reference to the work of secondary schools Second term, two hours.—Professor Colestock.

25. **Teachers' Course in Greek.** The Anabasis and Iliad are used as text. The preparatory work is reviewed, and suggestions made regarding methods of teachings. Some informal lectures are also given regarding the first year's work in Greek. First term, Seniors and Juniors.—Professor Hamblin.

26. **Teachers' Course in Latin.** Special topics in grammar, with practical exercises in Cæsar, Cicero, Vergil. Third term, open to Seniors and Juniors.—Professor Rockwood.

27. **Teachers' Course in English.** Designed to familiarize the student with the authors required for entrance to college.—Professor Perrine.

28. **Teachers' Course in Mathematics.** Mathematics as developed in history and as used in education. (a) Arithmetic: Its culture value, utility, present status in the schools; reforms in arithmetical teaching. (b) Algebra: Its growth during the last three centuries, typical parts (ethical value). (c) Geometry: Its basis, historical position, methods, recent geometry.—Professor Bartol.

CERTIFICATES.

The courses in education and methods of teaching, including Child Psychology, the History, the Psychology, and the Philosophy of Education, are helpful to those intending to teach. Students who take not less than eight of these courses will be entitled to a certificate for the work done in addition to the diploma of the Course in which they graduate.

REGISTER OF TEACHERS.

In order to aid Boards of Control in securing suitable teachers, there is kept a registry of graduates of Bucknell University who may wish to engage in teaching. Alumni and friends of the College will render a service if they will inform the President of vacancies.

II. DEPARTMENT OF LAW.

HAROLD MURRAY MCCLURE, A. M.,
PRESIDENT JUDGE OF THE SEVENTEENTH JUDICIAL DISTRICT,
LECTURER ON CONTRACTS AND PRACTICE.

FREDERIC EVANS BOWER, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON EVIDENCE AND EQUITY.

ALBERT WILLIAM JOHNSON, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON REAL AND PERSONAL PROPERTY.

The Bucknell College of Liberal Arts offers in its courses for the degrees in Arts and Science a number of subjects specially bearing upon the study of law. Students prepared for college and having taken one year's work in liberal studies, will be admitted to the studies in Law. The subjects offered are those usually given in the first year of the best law schools. The instruction is by text-book, lecture, and study of cases. The texts of "Leading Cases" have been placed in the library for the use of students. A certificate for the work done is given by the department, in addition to the Diploma of the College. But this certificate is not given for any legal subject in which the student's standing is below nine: nor to any student whose general average is below nine. The law studies are counted towards the degree in Liberal Arts, to the amount of one year's work. Opportunity is given for the *Review* of the *Latin, History* and *Literature* required in the Preliminary Examination for registration as students at Law in Pennsylvania.

1. **Elementary Law.** Robinson's Elementary Law. Third term. Sophomore year.—PROFESSOR COLESTOCK.

2. **Blackstone's Commentaries.** One hour, Junior year, three terms. B. I, III, IV.—PROFESSOR COLESTOCK.

3. **Real Property.**. Blackstone B. II, and Select Cases, Lectures. First term, Junior year.—MR. JOHNSON.

4. **Personal Property.** Text-book, Select Cases, Lectures. Second term, Junior year.—MR. JOHNSON.

5. **Contracts.** Text-book, Select cases, Lectures. First term, Senior year.—JUDGE MCCLURE.

6. **Equity.** Text-book, Select Cases, Lectures. Third term, Junior year.—Mr. Bower.

7. **Evidence.** Text-book, Select Cases, Lectures. Second term, Senior year.—Mr. Bower.

8. **Pleading.** Stephen, Leading Cases, Lectures. Third term, Senior year.—Judge McClure.

9. **Principles of International Law.** Fall term, Seniors and Juniors.—Professor Heim.

10. **Roman Law.** Third term, Seniors and Juniors.—Professor Rockwood.

11. **American Civics.** A study of the frame of Federal and State Government.—Professor Colestock.

12. **The Constitution of Pennsylvania.** The work reviews the principal decisions of the Supreme Court interpreting the provisions of the Constitution.—Professor Heim.

13. **American Constitutional Law.** Third term, Seniors and Juniors.—Professor Hamblin.

14. **Constitutional Limitations.** Cooley's Constitutional Limitations is used as a text, and cases are studied.—Professor Heim.

15. **Comparative Constitutional Law.** Second term, Seniors and Juniors. A comparison of the Constitutions of England, France, Germany and the United States.—Professor Heim.

16. **Moot courts** are held in which an attorney-at-law and a student sit as judges, and students, deputed to represent the respective sides, present their arguments. The presiding student writes the opinion of the court.

III. DEPARTMENT OF ECONOMICAL AND POLITICAL SCIENCE.

Ephraim M. Heim, ph. d., professor.

1. **Economics, I.** General course, devoted chiefly to problems of Production and Distribution; first term, five hours. Seniors and Juniors.

2. **Economics, II.** Money and Banking. Second term; five hours. Seniors and Juniors. Prerequisite, Course 1.

3. **Economics, III.** Public Finance. Financial Administration, Taxation and Public Debts. Second term; five hours. Alternating with Course II. Prerequisite, Course I.

4. **Private Corporations.**. Corporate problems, economic and legal. Corporation Finance. Third term; five hours.

5. **Railroad Transportation.** Relation of Railways to Investors, to the Public, and to the Law. Theory of Rates. Methods of State Control. Third term; five hours.

6. **American Civics and Parliamentary Law.** A study of the American Frame of Federal and State Government; and of Parliamentary rules and usages.—PROFESSOR COLESTOCK.

7. **American Constitutional Law.** Cooley's Elements of Constitutional Law. A study of the law of the Federal Constitution. Juniors and Seniors. Third term; five hours.—PROFESSOR HAMBLIN.

8. **The Pennsylvania Constitution.** Growth and Development of the State Constitution, together with a study of leading cases interpreting existing constitutional provisions. Third term; five hours.

9. **Constitutional Limitations.** The Constitutional Law of the American Commonwealth. The sphere of Civil Rights in relation to the exercise of governmental power through the criminal law, the police power, the taxing power, and the power of eminent domain. First term; five hours.

10. **Comparative Constitutional Law.** A comparative study of the Constitutions of England, France, Germany, Switzerland, and the United States. Second term; five hours.

11. **Municipal Government.** Organization of City Government. Problems of Administration, Municipal Functions. Relation to the State. Second term; five hours. Seniors and Juniors.

12. **International Law.** First term; five hours. Seniors and Juniors.

13. **Political Science and Public Administration.** One hour a week, extending through the Sophomore year in the Course in Jurisprudence. An examination of fundamental concepts and principles, together with a survey of the literature, of Political Science and Economics. Introductory to subsequent courses in law and government.

Honor Courses:

14. **Economics.** First term, one hour. One of the following:

(a) Economic History; (b) Socialism; (c) Theories of Distribution.

15. **Administrative Law.** Second term, one hour.

16. **Political Science.** Third term, one hour. One of the following:

(a) Bluntschli, Allgemeines Staatsrecht.

(b) Gneist, Das englische Verwaltungsrecht.

IV. DEPARTMENT OF SOCIOLOGY.

WILLIAM EMMET MARTIN, A. M., PROFESSOR.

1. **Anthropology, Descriptive and Physical.** Elective to Sophomores. Third term, five hours.

2. **Ethnology.** Seniors and Juniors. First term, one hour. Prerequisite Course 1.

3. **History of Culture.** Seniors and Juniors, alternating with Course 5. First term, one hour.

4. **Sociology, Principles and Theory.** Elective to Seniors and Juniors. First term, five hours.

5. **Charities and Reform.** Seniors and Juniors. Second term, one hour. Prerequisite Course 4.

6. **Municipal Sociology.** Seniors and Juniors. Second term, five hours.

7. **Esthetics, Principles and Problems.** Seniors. First term, one hour.

8. **History of Art, Architecture, Painting, and Sculpture.** Seniors and Juniors. Second term, one hour.

V. DEPARTMENT OF HISTORY.

HENRY THOMAS COLESTOCK, PH. D., PROFESSOR.

History is approached in the gradually unfolding life-story of the race, in which certain movements of unusual importance have arisen, resulting from the conflict between ideas embodied in institutions and those seeking to be embodied. The courses are planned

with a view of introducing the student not only to the principa movements resulting from this conflict between ideas, but also t the process by which ideas become embodied in social institutions

1. **Oriental History.** Ancient civilization along the Nile an the Euphrates. Second term, five hours.

2. **Hebrew History and Literature.** Second term, five hours —PROFESSOR PHILLIPS.

3. **New Testament History and Literature.** Third term, fiv hours.—PROFESSOR PHILLIPS.

4. **Greek Political and Constitutional History.** First term five hours.—PROFESSOR HAMBLIN.

5. **Roman History.** Second term, five hours.—PROFESSOR ROCKWOOD.

6. **Roman Private Life.** Second term, five hours.—PROFESSOR BALLENTINE.

7. **Medieval Europe.** The training of a new race into whose hands was committed the heritage of the past. First term, five hours.

8. **Modern Europe to 1789.** Revolutions in ideas, creeds, interests. Second term, five hours.

9. **Modern Europe since 1789.** Napoleonic era. Unification. Growth in national consciousness. Third term, five hours.

10. **History of England.** Social and political development of the English people from the earliest times. First term, five hours.

11. **Constitutional History of England.** With especial reference to the growth and development of the representative system. First term, five hours. To alternate with Course 10.

12. **Blackstone, Book I.** First term. Junior year, one hour.

13. **Blackstone, Book II,** with cases. First term, five hours— MR. JOHNSON.

14. **Blackstone, Book III.** Second term. Junior year, one hour.

15. **Blackstone, Book IV.** Third term. Junior year, one hour.

(Courses 12, 13, 14, 15 are required in Jurisprudence.)

16. **American Colonial History.** The transplanting of European ideas and their growth into American institutions. First term, five hours.

17. **American Constitutional History.** Development of the federal system. Issues involving the operation and interpretation of the Constitution. Second term, five hours.

18. **American Civics.** The operations of government under American conditions. Third term, five hours.

19. **Elements of Law.** Definitions and principles. Third term, five hours.

20. **Teachers' Course in American History.** With especial reference to method of teaching in secondary schools. Second term, two hours.

21. **The Reformation in Germany.** First term, Seniors, one hour.

22. **Social England.** Second term, Seniors and Juniors, one hour.

23. **The Modern Orient.** Third term, Seniors and Juniors, one hour.

24. **New France in America.** Seniors and Juniors, one hour.

VII. THE GREEK LANGUAGE AND LITERATURE.

THOMAS FRANKLIN HAMBLIN, A. M., PROFESSOR.

There are four terms of required work in Greek in the Classical Course, and five in the Greek Philosophical Course; while Greek may be taken as an elective during the entire Junior and Senior years. Besides the elective Courses a number of Honor Courses are offered. In the Elective Course a year of poetry alternates with a year of prose. A course of lectures on the Greek poets is given to the Seniors, with collateral reading. A course of New Testament Greek, designed especially for candidates for the ministry and extending through the Senior year is given by Professor Phillips.

Courses: 1-5, required; 6-15, elective.

1. **Homer.** Odyssey, Books 5-8. Review of verb forms and

syntax of verbs. Epic forms and styles. Word lists. Metre. First term, Freshman year.

2. **Lysias.** Six orations. Inflection and syntax of nouns. Prose composition. Attic oratory. Translation at sight and hearing. Second term, Freshman year.

3. **Plato.** Apology and selections. Special topics in Greek Syntax. Philosophy and influence of Socrates. The Sophists. Extracts from the Memorabilia at sight. Third term, Freshman year.

4. **Greek Political and Constitutional History.** Bury's History of Greece is used as a text-book. The class is also required to do collateral reading on important epochs. First term, Sophomore year.

5. **Demosthenes.** Olynthiacs and Philippics. History and Politics of the Macedonian period. Style of Demosthenes. Second term, Sophomore year.

6. **Æschylus and Sophocles,** Prometheus Bound and Œdipus Tyrannus. The drama, theatre, and metres. First term, Seniors and Juniors, in alternate years.

7. **Euripides and Aristophanes,** Medea and The Clouds. Greek Comedy. Religious influence of the poets. Influence of the Classical on the Modern Drama. Second term, Seniors and Juniors, in alternate years.

8. **Greek Literature in English.** A course especially designed for students in the Philosophical or Scientific Courses, that they may become acquainted with some of the Greek masterpieces. The best translations will be studied and explained, and informal lectures will be given on various phases of Greek Literature. Third term, Senior and Junior years.

9. **Demosthenes.** *De Corona.* The oratory of Demosthenes, from a literary and political point of view. Æschines against Ctesiphon at sight. Second term, Seniors and Juniors, alternating with 6.

10. **Plato.** The Phaedo. Greek Philosophy. The influence of Plato. Third term, Seniors and Juniors; alternating with 7.

11. **New Testament Greek.** The Gospel according to Luke. Hellenistic Greek. Second and third terms, Freshman year; one hour a week.

12-14. **New Testament Greek.** Translation of the synoptic Gospels; interpretation; Burton's *moods* and *tenses;* characteristics

of Hellenistic Greek. Designed for students desiring a linguistic and historical foundation for the interpretation of the New Testament. Three terms. Elective to Seniors.—Professor Phillips.

15. **Teachers' Course in Greek.** The Anabasis and Iliad are used as text-books. Thus the Preparatory work may be reviewed, and suggestions received regarding the methods of teaching. Some informal lectures are also given regarding the first year's work in Greek. First term, Seniors and Juniors.

16. **Xenophon.** The Symposium and Œconomicus. Sophomores and Freshmen. Winter terms in alternate years, one hour.

17. **Homer and Lucien.** Selections from each in alternate years. Sophomores and Freshmen. Third term, one hour.

18. **Xenophon and Æschines.** The Memorabilia and the oration against Ctesiphon, in alternate years. Seniors and Juniors, first term, one hour.

19. **Sophocles and the Lyric Poets.** Antigone and selections from the Lyric Poets in alternate years. Seniors and Juniors, second term, one hour.

VII. THE LATIN LANGUAGE AND LITERATURE.

Frank Ernest Rockwood, ll. d., professor.
Floyd George Ballentine, ph. d., assistant professor.

There are four terms of required work in Latin and eleven of elective in the Classical and Latin Philosophical Courses. Honor courses, subject to change from time to time, are also offered.

A. Candidates for the Degree of Bachelor of Science take Latin daily during the Freshman year. This course is intended for students who have passed only in the General Requirements in Latin, for admission. The work consists in the study of *Cicero (selected speeches)* and *Vergil*, or *Livy*, and *Prose Composition.*

B. The following courses are designed for students in the Classical and Philosophical Courses, but are also open as electives to students in the Science Course who may be qualified to take them:

Courses: 1-4, required; 5-15, elective.

1. **Cicero.** *De Senectute.* Livy: Book I. Review of special topics in Latin Grammar. Oral and written exercises in Prose Composition, based upon the text. Translation at sight and at hearing. First term, Freshman year, two divisions.

2. **Livy:** Books XXI and XXII. Latin Prose Composition, based upon the text. Roman history: Special chapters in Liddell. Second term, Freshman year, two divisions.

3. **Velleius:** Roman History. PLINY. Selections from the Epistles. Translation at sight. Latin Prose Composition, based upon the text. Third term, Freshman year, two divisions.

4. **Horace:** Selections from the Odes, Satires, and Epistles. Prosody; Historical Outlines of the Latin Language and Literature; Wilkins' Primer; Lectures. First term, Sophomore year, two divisions.

5. **Roman History:** The work is based on Allen's Rise and Fall of Rome. Mommsen, Bury, and Gibbon are used for supplementary reading. Second term, Sophomore year.

6. **Quintilian:** Books X and XII. Roman Literature. Second term; open to those who have taken course 4; alternating with 12.

7. **Juvenal:** Selected Satires. Third term; open to those who have taken course 4.

8. **Plautus:** Selected Plays. First term; open to Seniors and Juniors; alternating with 11.

9. **Terence:** Andria, Hauton Timorumenos, and Phormio; lectures on such subjects as the life and influence of Terence, the Roman theatre, the production of comedy, etc. Second term; open to Seniors and Juniors; alternating with 14.

10. **Latin Inscriptions:** Allen's Remnants of Early Latin; Egbert's Manual. Third term; open to Seniors and Juniors; alternating with 13.

11. **Tacitus:** Annals. Translation at sight. Roman History. First term; open to Seniors and Juniors; alternating with 8.

12. **Latin Poets:** Crowell's Selections. Roman Literature. Second term; open to those who have taken course 4; alternating with 6.

13. **Teachers' Course in Latin:** Special topics in grammar

with practical exercises in Cæsar, Cicero, Vergil. Third term; open to Seniors and Juniors; alternating with 10.

14. **Roman Private Life:** Lectures; required reading; one report, involving elementary investigation. Second term; open to Seniors and Juniors; alternating with 9.

15. **Roman Law:** Morey's Roman Law; Sandars' Institutes of Justinian; lectures and reports. Third term; open to Seniors; required in the Course of Jurisprudence.

16. **Roman Philosophy:** Cicero and Seneca, one hour.

17. **Christian Writers:** Tertullian and Latin Hymns, one hour.

18. **Classical Philology:** Introductory Course, one hour.

VIII. THE ENGLISH LANGUAGE AND LITERATURE.

ENOCH PERRINE, LITT. D., PROFESSOR.

1. **English Literature**, introductory course. Designed to give a general knowledge of the history of English Literature from the Elizabethan to the Victorian periods, inclusive. Required, second term, Sophomore.

2. **Anglo-Saxon:** Old English Language and Literature, with special elective in Beowulf. Elective for those who have taken course 1 and the required work in German.

3. **Chaucer:** Middle English Language and Literature, with readings in Langland and Gower, and in Lounsbury's The English Language. Elective for those who have taken course 1 and the required work in French.

4. **The English Drama:** its development from the earliest times to Shakspere. Elective for those who have taken Courses 1 and 7, and alternating with course 9.

5. **Shakspere:** His mind and art. Critical study of **A Midsummer Night's Dream, Hamlet, and Tempest.** Senior elective.

6. **The Georgian Period of English Literature:** Elective for those who have taken course 1, and alternating with course 7.

7. **English Literature from 1830.** Elective for those who have taken course 1, and alternating with course 6.

8. **American Literature,** with special reference to the national period. Elective for those who have taken course 1.

9. **Principles of Literary Criticism.** Elective for those who have taken courses 1, 7, and 8, and alternating with course 4.

10. **Periods of English Literature.** Special "honor" work is given in different periods of English Literature to those who have passed with credit in courses 1, 4, 7, and 8.

11. **English Oratory,** a study of the oration as a literary form. Elective for those who have taken course 1 and the required courses in Rhetoric.

12. **Journalism,** a study and practice of the various forms illustrated in the metropolitan "dailies," together with proof-reading, study of the functions of editors, and readings in the history of great American journalists and journals. Elective for those who have taken course 1 and the required courses in Rhetoric.

13. **Foreign Literature in English.** Lectures on some of the world's masterpieces are given to the Seniors on Monday mornings during the third term.

14. **Teachers' Course in English.** Designed to familiarize the student with those authors, both in the way of theory and practice, that are required for entrance to college. Two hours.

15. Le Public et les Hommes de Lettres en Angleterre, 1660-1744; Beljame; or Ecrivains Modernes de L'Angleterre, Montegut.

16. **Shakspere:** Fünf Vorlesungen von Bernhard ten Brink.

IX. RHETORIC AND ORATORY.

Llewellyn Phillips, A. M., Professor.
Bromley Smith, A. M., Instructor in Rhetoric and Oratory.
William Eugene De Melt, Assistant in Rhetoric.

A.—COURSES IN RHETORIC AND COMPOSITION.

1. **Rhetoric and English Composition:** Introductory course. Themes, weekly recitations, and consultations. Three terms; one hour. Required of Freshmen.

Students who show good preparation are admitted to a special section, in which more advanced work is given.

2. **English Composition:** Daily themes, recitations, and consultations. First term, five hours. Required of Sophomores.

3. **Argumentation:** Baker's *Principles of Argumentation.* Briefs, forensics, and oral discussion. Third term. Open to students who have pased in 1 and 2.

4. **English Composition:** *Advanced Course.* Wendell's *English Composition.* Daily and fortnightly themes, recitations, and consultations. Second term; five hours. Open to Seniors and Juniors.

5. **Theses.** Every member of the Junior and the Senior Class writes a thesis. The Junior theses contain not less than two thousand words, the Senior theses not less than three thousand words. The subjects are chosen in conjunction with the heads of the departments to which the subjects belong. Upon these theses are based the Junior Exhibition orations and the Commencement orations. The subjects of the theses are presented to the Professor of Rhetoric before October 22, and an outline of each thesis is presented to the Professor of Rhetoric at the close of the first term. The completed theses are handed in before March 1. They are examined first by the heads of the departments to which the subjects belong and afterwards by the Professor of Rhetoric. The subjects of the Senior theses are published in the annual Catalogue.

6. **English Prose.** Studies in Structure. Two hours.

7. **English Prose.** Studies in the Principles of style. Two hours.

8. **Teachers' Course.** The theory and practice of Rhetoric and Composition. Carpenter, Baker, and Scott. The teaching of English. Two hours. Open to students who have attained an average grade of nine in courses 1, 2, and 4.

9. **The Theory of Rhetoric.** A study of the laws of thought.

10. **Movements of Thought in the Nineteenth Century.** Methods of investigation; theses. Open to Seniors.

B.—COURSES IN ORATORY.

The aim is to train the student to speak effectively in the pulpit or upon the platform or at the bar. All instruction is based upon the principle that impression precedes and determines expression. Each student receives individual attention during the first half of the course in elocution, during the latter half in oratory. Special

attention is given to debate. Each student is urged to take an active part in the work of the Literary Societies.

The ultimate object of the *physical culture* is to secure a good presence and the ability on the part of the voice and body to interpret correctly the conceptions of the mind.

FRESHMEN.

1. **Physical Culture.** Exercises for securing correct position, and harmony of movements and attitudes; exercises for breath control and vocal culture and for grace in gesture.

2. **Public Speaking.** Study of the fundamentals of public speaking; delivery of short extracts from masterpieces of oratory, aiming to secure directness, earnestness, and dignity of address. Required, first and second terms, one hour.

3. **Public Speaking.** Delivery of complete orations illustrating and applying the principles studied in the first and second terms. A prize is offered to the young man and one to the young woman of the Freshman Class who excels in the delivery of these orations. Required, third term.

SOPHOMORES.

4. **Public Speaking.** Close analysis and study of the details of public speaking; study of the various styles of delivery and of the different forms of discourse. Delivery of selected extracts from masterpiece illustrating each. Extemporaneous speaking. Reviews and continuation of the physical culture of course 1. Required, first term, one hour.

5. **Public Speaking.** Study of narration. Description and argumentation. Delivery of selections illustrating each. Preparation and delivery of original narrations and descriptions. Extemporaneous speaking. Required, second term, one hour.

6. **Public Speaking.** Delivery of complete argumentative selections. Preparation for and participation in debate. A prize is awarded to the young man of the Sophomore Class who shall excel in the delivery of an assigned selection in argumentation. A prize is awarded to the young woman of the Sophomore Class who shall excel in the delivery of an assigned selection in narration. Third term.

7. **Public Address.** The various forms of addressing the public are studied. Beginning with open letters and editorials, the class advances to presentations, acceptances, nominations, dedications, inaugural addresses, institute talks, banquet toasts, eulogies, commemorative orations, etc. Each student prepares and delivers before his class specimens from the above forms. Third term, five hours; Sophomores.

8. **Practical Oratory.** Briefs and notes are made the basis for extemporaneous addresses; Congressional speeches and modern occasional orations are outlined and studied. The application of rhetorical and of oratorical principles in their connection with logic is considered. Special work in line with the student's intended profession is given. A limited field, historical, economic, or otherwise, is assigned to each student for development. When his orations have been examined and corrected, the student delivers them before the class. First term, five hours; Seniors and Juniors.

9. **Interpretative Reading.** The use of the voice in bringing out the meaning of the best literature is obtained by practice in class. Attention is given to the pedagogical and psychological aspects of reading. Second term, five hours; Seniors and Juniors.

JUNIORS.

10. **Prize Contest.** A prize contest in Oratory is held in the third term by Juniors, appointed on the ground of superiority in composition and elocution as shown during the preceding terms of the college course.

11. **Prize and Honor Debate.** During the year there are three debates by Juniors, the last of which is a prize and honor debate.

12. **Oral Debates.** Briefs, Debates, and Criticism. The Professor of Economic and Political Science coöperates in this course. First term; one hour.

The contestants for the Junior Prize are selected from the students who take this course.

SENIORS.

13. **Honors in Debating.** During the year an elective course in debating is offered to Seniors. The last debate is public.

14. **Prize in Oratory.** A prize is offered for the best oration of those delivered by the Senior orators at Commencement, regard being had equally to subject-matter, style, and delivery.

X. DEPARTMENT OF MODERN LANGUAGES.

Guido Carl Leo Riemer, A. M., professor.
Elysee Aviragnet, A. M., professor of the roman languages.
Paul Emil Weithaase, A. M., assistant professor of german.
William Cullen Keough, A. B., instructor in french.

A.—GERMAN.

1[a]. **Elementary Course.** Grammar; German prose; practice in writing German. Two terms.

1[b]. **Elementary Course.**. Grammar; German prose; practice in writing German. Required course, Sophomores of the Classical Course. Third term, five hours.

2. **German Prose.** Grammar; practice in writing German. Required course, Freshmen of the Scientific Course; elective course for those who have taken 1[a] or 1[b].

3. **German Prose and Poetry.**.Grammar; practice in writing German. Required course, Freshmen of the Scientific Course; elective course for those who have taken course 2.

4. **Historical and Critical German Prose.** Practice in writing German. Elective course for those who have taken course 3.

5. **Lessing and Schiller.**. Practice in writing German; lectures. Elective course for those who have taken course 4.

6. **Schiller.** Practice in writing German. Elective course, for those who have taken course 4.

7. **Goethe.** Practice in writing German; lectures. Elective course, for those who have taken course 4.

8. **Goethe.** Dichtung und Wahrheit, Faust I; practice in writing German; lectures. Elective course, for those who have taken courses 5-7.

9. **Kleist and Grillparzer.** Practice in writing German; lectures. Elective course, for those who have taken course 8.

10. **German Short-Story.** Practice in writing German; lectures. Elective course, for those who have taken course 9.

11. **Ludwig and Hebbel.** Practice in writing German; lectures. Course 11 alternates with course 8.

12. **Heine and Uhland.** Practice in writing German; lectures. Course 12 alternates with Course 9.

13. **History of German Literature.** From the beginning to the XVIIIth Century. Two lectures in English per week. Open to Sophomores, Juniors and Seniors. First term.

14. **History of German Literature.** The XVIIIth and XIXth Centuries. Two lectures in English per week. Open to Sophomores, Juniors, and Seniors. Second term.

15. **History of the German Language.** Open to those who take Courses 14-16. Third term, two hours.

16. **Gothic.** Open to Juniors and Seniors. Third term, one hour.

17. **Lotze.** Grundzüge der Psychologie. (Philosophy 3.)

18. **Shakspere: Fünf Vorlesungen.** (English 16.)

19. **German Political Science.** (Economics 16.)

20. **German Biological Science.** (Biology 21.)

21. **German Chemical Science.** (Chemistry 16.)

B.—FRENCH.

1[a]. **Elementary Course.** Grammar; French prose; practice in writing French. Required course, Spring term.

1[b]. **Elementary Course.** Grammar; French prose; practice in writing French. Fall term.

2. **French Prose.** Grammar; practice in writing French. Elective course, for those who have taken course 1[a] or 1[b].

3. **French Prose and Poetry.** Grammar; practice in writing French. Elective course, for those who have taken course 2.

4. **Historical and Critical French Prose.** Practice in writing French. Elective course, for those who have taken course 3.

5. **Corneille and Racine.** Practice in writing French; lectures. Elective course, for those who have taken course 4.

6. **Molière.** Practice in writing French; lectures. Elective course, for those who have taken course 4.

7. **Authors of the XVIII Century.** Practice in writing French; lectures. Elective course, for those who have taken courses 4-6.

8. **Authors of the XIX Century.** Practice in writing French; lectures. Elective course, for those who have taken course 7.

9. **A View of French Literature.** Reading; practice in writing French; lectures. Elective course, for those who have taken course 8.

10. **Conversational French.** A course in Conversational French is given by Dr. Aviragnet to students who have made sufficient progress in the language.

11. **French Prose Composition.** In addition to the exercises in French Prose Composition required in all the courses, Dr. Aviragnet gives annually a special course.

12. **Publique et les Hommes de Lettres,** or **Ecrivains Modernes de l'Angleterre.** (English 15.)

C.—SPANISH

DR. AVIRAGNET.

1. **Elementary Spanish.** Grammar. Conversation. Translation of easy prose. Elective course, for Seniors and Juniors. First term, five hours.

2 and 3. **Spanish Prose.** Translation, Composition, Conversation. Elective course, for Seniors and Juniors. Second and third terms, five hours.

XI. DEPARTMENT OF MATHEMATICS.

WILLIAM CYRUS BARTOL, PH. D., PROFESSOR.
JOSEPH MEIXELL WOLFE, A. M., ASSISTANT PROFESSOR
CHARLES ARTHUR LINDEMANN, A. M., ASSISTANT PROFESSOR.
FRANK MORTON SIMPSON, SC. M., ASSISTANT PROFESSOR.

_____, ASSISTANT PROFESSOR.
ELECTRO-TECHNICS.
FRANK EUGENE BURPEE, A. M., INSTRUCTOR.
CLARENCE EDWARD LONG, ASSISTANT.

1. **Solid Geometry.** The course includes the geometry of solids with plane surfaces, the cone, the cylinder, the sphere, and the spherical triangle. Freshman year, first term, five hours for eight weeks.

2. **Algebra Course a.** The topics are ratio, proportion, variation, progressions, theory and development of functions, logarithms,

differentiation of algebraic functions, indeterminate equations Freshman year, first and second terms, five hours for ten weeks.

3. **Algebra Course b.** The course embraces all the topics of course *a*, but it is extended further and includes the solution of numerical higher equations. Freshman year, first term, Engineering Courses.

4. **Advanced Algebra.** Half course in series and the theory of equations; open to Freshmen of the Arts and Science courses. Prerequisite to Course 12. Second term, two hours.

5. **Determinants and Advanced Algebra.** Minor course, open to Freshmen of the Engineering course and to Sophomores of the Arts and Science courses. Alternating with course 37. Second term, two hours.

6. **Trigonometry, Course a.** The course includes plane trigonometry with application to problems in mensuration and surveying, and spherical trigonometry with some applications to problems in astronomy. Freshman year, second and third terms, five hours for ten weeks.

7. **Trigonometry, Course b.** Similar to course *a*, but extended to meet fully the needs of Engineering students. Freshman year, second term.

8. **Analytical Geometry, Course a.** The student is taken through the elementary properties of the right line, the circle, and the conic sections. The course is intended to give a clear conception of the methods of Cartesian analysis rather than an extensive knowledge of its results. Freshman year, third term, five hours for nine weeks.

9. **Analytical Geometry, Course b.** Similar to course *a*, but extended to include the topic of higher plane curves. Freshman year, third term, Engineering Course.

10. **Analytical Geometry, Course c.** Supplementary to course *a*, given to Sophomores of the Arts and Science courses; required of all who take up the Calculus. First term, two hours.

11. **Higher Analytical Geometry.** The course covers the geometry of three dimensions surfaces of revolution and higher plane curves; alternating with course 14. Junior year, second term, five hours.

12. **Differential Calculus.** The course includes higher derivatives and functions of several variables, infinite series, maxima and

minima. Prerequisite, courses 3 and 9. Sophomore year, second term, five hours.

13. **Integral Calculus.** The course includes the simpler methods of integration, rectification and quadrature of plane curves, surfaces and solids of revolution, and applications to problems in Physics and Mechanics. Sophomore year, third term, five hours.

14. **Differential Equations.** An elementary course with mechanical applications; alternating with course 11. Junior year, second term, five hours.

15. **Descriptive Astronomy.** The aim of the course is to present in concise form a synopsis of astronomical knowledge to date. Lectures. Sophomore year, Arts and Science courses, second term, one hour.

16. **General Astronomy.** The subject is taught by text-book, with illustrations in the observatory. The students have free use of the ten-inch equatorial telescope. Third term, five hours.

17. **Geodetic Astronomy.** The course includes the use of the astronomer's transit and micrometer; observations for Time; conversion of Time; Latitude, Longitude, Azimuth and their geodetic determination; figure and dimensions of the Earth; use of the American Ephemeris; practice in the Observatory. Prerequisites, a course in Surveying and one in the Elements of Astronomy. Juniors and Seniors, first term, five hours.

18. **Plane Surveying.** *Land Surveying,* laying-out, subdividing, and finding the area of given tracts of land. *Topographical Surveying,* by chain and compass, by plane table, and by transit instrument and stadia rods. Sophomore year, first term, five hours.

19. **Geodetic Surveying.** Minor course. Sophomore year. Civil Engineering, first and second terms, one hour.

20. **Railroad Surveying.** Instruction is given in the theory of simple and compound curves, wyes, switches, and turn-outs. A corps is organized, which makes a preliminary survey of a cross-country railroad. The topography of this is taken and plotted; elevation of centre line taken; grade determined; degree of curves fixed, and paper location made. Centre line of permanent survey is now located; slope stake set; earthwork calculated; specifications drawn up, and estimates made of the line surveyed. Sophomore year, Civil Engineering, third term, five hours.

21. **Mine Surveying.** Problems in Mine Surveying, such as plumbing the shaft, locating bore holes, lining up chambers, driving

tunnels, are worked out in class and with the instruments. Plotting of notes forms a part of the work, and a trip of inspection is made to some nearby workings. Senior year, Civil Engineering, third term, five hours for six weeks.

22. **City Surveying.** Town sites are located and plotted; permanent reference points and bench marks established; sewers located and calculated; curb and property lines determined. Senior year, Civil Engineering, third term five hours for six weeks.

23. **Descriptive Geometry.** A study of the representation of lines, plane surfaces, solids, and sections of solids; the projection of points, lines, and surfaces; practical problems. Engineering Courses, Sophomore year, second term, five hours.

24. **Linear Perspective.** A course of twelve lectures designed to familiarize the student with the principles of perspective, and to give him an insight into their manifold applications. Arts and Science Courses, Sophomore year, first term, one hour.

25. **Courses in Drawing.** Extending through the Freshman year of the course in Civil and Electrical Engineering, and required of all candidates for the degree of Bachelor of Science in Civil or Electrical Engineering. Ten hours a week.

(1.) **Linear and Freehand.** An elementary course in drawing to give the student facility in the use of instruments; Geometrical problems; cross-sectioning; shading; isometric drawing; sketching from models.

(2.) **Lettering.** The form and proportion of standard letters; structural details; methods of spacing; laying out titles.

(3.) **Architectural Drawing.** Plans, elevations, and perspective drawings; copying of standards.

(4.) **Pen and Color Topography.** Topographical signs; methods of hill shading; surface forms by contours and in color and pencil; enlarging and reducing maps, rendering in water colors, sepia, and charcoal.

(5.) **Tracing and Blue Printing.** Photographic methods of the Architect and Engineer.

25. **Precise Surveying.** Given in connection with the courses in surveying. Sophomores, second term, one hour.

26. **Machine Design.** Problems in drawing and designing. Second term, Sophomore Engineering, one hour.

27. **Architectural Design.** The design of brick and stone structures, including the preparation of plans and specifications. Junior Engineering, one hour, first and second terms.

28. **Architectural Design, 2.** This course will take up the theory and practice of modern framed structures, and the fire proofing of the same. First and second terms, Senior Engineering, one hour.

29-31. **General Physics.** (Three terms.) These courses in Physics are required in the Engineering Courses and are elective in the other courses. Instruction is given in the Laboratory supplemented by recitations and lectures.

(a) LABORATORY. The Laboratory instruction extends throughout the year and includes experiments illustrating the general laws in all branches of physics. The experiments are largely quantitative and use is made of instruments of precision. The work is entirely individual. The student is required to take notes in the Laboratory, elaborating them outside and presenting for criticism from time to time.

(b) RECITATIONS. Recitations supplement the laboratory work. The study of a text covering the theoretical and mathematical side of the subject is required.

(c) LECTURES. Frequent lectures are given in which use is made of lecture-room apparatus. All important phenomena are illustrated and experimental demonstrations of the principal laws are presented.

29. **Mechanics and Heat.** First term, Junior year.

30. **Electricity and Magnetism.** Second term, Junior year.

31. **Acoustics and Optics.** Third term, Junior year.

32-34. **Advanced Physics.** The course extends throughout the year and assumes that the student has completed courses 29-31 or the equivalent. Instruction is given chiefly in the Laboratory. Students are instructed in the use of instruments of precision employed in Mechanics, Heat, Light, Electricity, and Magnetism. The work in the Laboratory is supplemented by written reports in which both general and theoretical results obtained are discussed. These reports afford the basis for criticism of the work. The work must be pursued in such order as the appointments of the Laboratory may require.

The subject of Electricity and Magnetism will occupy about two-thirds of the year. For this work the laboratory is supplied

with instruments of precision, such as the Thomson Reflecting Astatic Galvanometer, Helmholtz, D'Arsonval, and Ballistic Galvanometers, Standard Cells, Condensers, and Resistance, Weston instruments, etc. A 50-Kilowatt, Thomson-Ryan Dynamo, 125 volts, at the University lighting plant and a 2-kilowatt 110-volt machine are available for study. The equipment is being increased as the need requires.

(1) **Mechanics.** Problems of engineering will receive special attention. The work will include experiments in statics, principle of moments, calibration of capillary tubes, testing levels, etc.

(2) **Heat.** Calorimetry and Thermo-dynamics of the steam engine will form the basis of the work.

(3) **Light.** The student will be instructed in the use of the spectrometer, spectroscope, interferometer, and the photometer.

(4) **Electricity and Magnetism.**

(a) Measurement of Current, Electro-motive Force, and Resistance. Determination of constants of galvanometers.

(b) Study of Primary and Secondary Batteries and Standard Cells.

(c) Tests, and calibration of commercial instruments.

(d) Experimental study of dynamo machines, including tests of efficiency.

(e) The Transmission of Intelligence.

35. **Strength of Materials.** Tensile, compressive, shearing, and cross-bending stresses are considered; methods of testing materials of construction are outlined, and problems in the design of wooden and steel beams, girders, footings, beams, roof trusses, etc., are worked out. First term. Junior Engineering, five hours.

36. **Masonry and Foundations.** The materials of masonry construction and their preparation and use receive attention; this is followed by a study of foundations—ordinary, pile, and under water. Under masonry structures are treated; masonry dams, retaining walls, bridge abutments and piers, culverts, and masonry arches. Second term, Junior Civil Engineering, five hours.

37-41. **Bridges and Buildings.** The first term is devoted to Graphical Statics, problems being worked out daily in the drafting room. The work of the second term consists in the determination of stresses in framed structures by means of graphic and algebraic

methods. The third term is spent in the calculation and designing of some framed structure and the preparation of the drawings for the same. Senior Civil Engineering, three terms, five hours.

42. **Roads and Pavements.** The economic location and design of streets and pavements are considered along with the questions of street drainage and foundations for roads and pavements. Comparisons are made between earth, gravel, broken stone, shell, plank, and burned clay roads, and also between asphalt, brick, stone block, and wooden block pavements. Equestrian roads, race tracks, bicycle paths, and sidewalks receive attention. First term, Junior Civil Engineering, five hours.

43. **Hydraulics and Hydraulic Motors.** This course includes the theory of Hydrostatics and Hydraulics, the flow of water over weirs, through orifices and tubes, and in pipes, canals, and rivers; the measurement of water-power; water wheels and turbines. Senior Engineering, second term, four hours.

44. **Water Supply and Sanitary Engineering.** Under the head of the collection and storage of water are taken up quantity of water required, rainfall, flow of streams, storage and evaporation of water, supplying capacity of water sheds, springs, and wells. The flow of water in streams, pipes, and channels is discussed, as also the practical construction of water works. A study is made of the various methods of sewage disposal. Third term, Junior Engineering, five hours.

45. **Contracts.** In this course will be given the principles of Common Law as applied to contracts. Third term, Senior Engineering, one hour.

46. **Electrical Measurements.** Lectures, recitations, and laboratory work. Juniors, Electrical Engineering, first term, five hours.

47. **Direct Current Machinery.** Lectures, recitations, and laboratory work. Juniors, Electrical Engineering, second term, five hours.

48. **Alternating Current Generators, Transformers, and Motors.** Lectures, recitations, and laboratory work. Juniors, Electrical Engineering, third term, five hours.

49. **Design of Electrical Machinery.** Lectures, recitations, drawings, and shop-work. Seniors, Electrical Engineering, first and second terms, five hours.

50. **Generating Stations and Sub-stations, Distribution of Electricity, Storage Batteries.** Lectures, recitations, and laboratory work. Seniors, Electrical Engineering, first term, five hours.

51. **Telegraph, Telephone, Railway Signal and Related Apparatus.** Lectures, recitations, and laboratory work. Seniors, Electrical Engineering, second term, five hours.

52. **Electric Lighting, Construction, Wiring, and Economics.** Seniors, Electrical Engineering, third term, five hours.

53. **Electric Railways, Construction, Operation, and Economics.** Seniors, Electrical Engineering, third term, five hours.

54. **Boilers, Steam Engines, Valve Gears, and Governors.** Juniors, Electrical Engineering, third term, five hours.

55. **Machine Design, Machine Tools.** Lectures, recitations, drawing. Juniors, Electrical Engineering, first and second terms, one hour.

56. **Gas, Air, and Oil Engines,** Juniors, Electrical Engineering, third term, one hour.

XII. DEPARTMENT OF CHEMISTRY.

WILLIAM GUNDY OWENS, A. M., PROFESSOR.
GEORGE STEPHEN TILLEY, A. M., INSTRUCTOR.
JOHN CLYDE HOSTETTER, ASSISTANT.

The Courses in Chemistry are designed to give a comprehensive view of the field covered by chemical investigation and to train the student in the various methods of chemical research. The courses as a whole are offered to those who expect to teach chemistry or enter the testing or industrial laboratory. As chemistry is at the foundation of the natural sciences, the first few courses are essential to the study of science and medicine, and are important for general culture.

1. **Descriptive Chemistry.** Text-book, lectures, and laboratory experiments. The properties, preparation, history, and uses of the non-metallic elements and their compounds. First term, five hours.

2. **Descriptive Chemistry.** Text-book, lectures, and laboratory experiments. The properties, preparation, history, and uses of the metallic elements and their compounds. Second term, five hours.

3. **Qualitative Analysis.** In the first part of the term chemical reactions are studied in the laboratory, class-room, and text-book, after which fifty compounds, mixtures, and industrial products are determined. Each student reports individually and is questioned on the methods of determination. Twelve hours laboratory work a week required. Third term, prerequisite courses 1 and 2.

4, 5, 6. **Quantitative Analysis.** This course, extending through the year, aims to acquaint the student with the methods of analysis used in different chemical determinations.

(1) In the first term, Gravimetric methods are studied and pure inorganic preparations made.

(2) In the second term, Volumetric methods are studied.

(3) In the third term, Fire and Gas analysis are taken up.

Chemical theories are studied throughout the year. Laboratory work, nine hours a week. Prerequisites, courses 1, 2, and. 3.

7. **Organic Chemistry.** Prerequisites, courses 1, 2, and 3. First term, five hours a weeek. Laboratory work, six to eight hours a week.

Hydrocarbons of the methane, olefine, and acetylene series and their most important derivatives are studied. In the laboratory, after preliminary exercises to train in technique, each student makes a number of pure organic substances belonging to the compounds studied.

8. **Organic Chemistry** (Continued). Second term, five hours a week. Prerequisite, Course 7. Aromatic hydrocarbons and derivatives are studied. In the laboratory a number of substances are made, and practice in ultimate organic analysis is given. From six to eight hours a week should be devoted to laboratory work, at times convenient to the student.

9. **Organic Chemistry** (Continued). Third term, five hours a week. Laboratory work, six to eight hours a week. Polycyclic and heterocyclic compounds related both to oliphatic and aromatic compounds are studied. In the laboratory, syntheses and analyses of comparative difficulty are performed, and some study of organic reactions is made.

10. **Physical Chemistry.** First term, five hours a week. Laboratory work, six hours a week. Prerequisite, courses 1, 2, 3, 4, 5, 6, mechanics and physics.

A study is made, during the two terms of the course, of gases

and the gas laws; of the properties of liquids and solids so far as of interest to the chemist; of solutions; balanced actions; the phase rule, and particular cases of homogeneous and heterogeneous equilibrium.

11. **Physical Chemistry.** Second term, five hours a week. Course 10 is continued and the theoretical part of electro-chemistry begun. Laboratory work, six hours a week. The laboratory work during the two terms will include the more important physico-chemical measurements, such as determination of heats of reaction, of specific gravities, of molecular weights, of velocities of reaction, and others.

12. **Physical Chemistry.** Third term, five hours a week. Laboratory work, six hours a week. Prerequisite, physical chemistry.

The theoretical consideration of electro-chemistry is continued, and technical subjects are studied, including electrolytic analysis of metals and some electrosynthetic methods.

The laboratory work will be designed to illustrate the subjects studied and give practice in electro-chemical technique.

13. **Toxicology and Urinalysis.** Poisons and their separation from organic matter are studied during the first part of the term. During the second part analysis of urine and of food adulteration is studied. Laboratory work, ten hours a week. Prerequisites, courses 1, 2, and 3.

14. **Metallurgy.** The manufacture and properties of iron and steel are studied and the influence of carbon, silicon, phosphorus, sulphur and other elements. Laboratory work consists in determining these elements and studying the structure under the microscope. Laboratory work, eight hours a week. Prerequisites, courses 1, 2, and 3.

15. **Agricultural Chemistry.** The chemistry of plants and fertilizers are studied. Fertilizer and food analysis is practiced in the laboratory six hours a week. This course covers the legal requirements for teachers of Pennsylvania high schools. Prerequisites, courses 1, 2, and 3.

16. **German Chemical Literature.** One hour a week, throughout the year. Prerequisite, at least two terms of German, and courses 1, 2, and 3 in chemistry.

Selections from standard German text-books and periodicals are read, and some study is made of the derivation and formation of scientific words.

17. **Physical Chemistry.** Mathematical topics. One hour.

18. **Organic Research.** One hour.

19. **History of Chemistry.** One hour.

XIII. DEPARTMENT OF ORGANIC SCIENCE.

GEORGE G. GROFF, M. D., LL. D., PROFESSOR.
NELSON FITHIAN DAVIS, SC. D., PROFESSOR OF BIOLOGY.
WILLIS EDGAR MANEVAL, SC. M., INSTRUCTOR.

It is the constant aim in this department to teach how to interpret nature. The student is guided in his investigations by lectures and laboratory manuals.

Courses 1, 2, 3, 4, 5, 6, 14, 15, 16, 17, 19, and 20 are given by Professor Groff.

Courses 2, 7, 8, 9, 10, 11, 12, 13, and 18 are given by Professor Davis.

1. **Animal Physiology.** Recitations, lectures, and laboratory work. Second term, Sophomore year.

2. **Experimental Physiology.** Lectures and experiments to illustrate the functions of the organs of the animal body. First term.

3. **Neurology.** Recitations, lectures, and laboratory work. Third term. Prerequisite, course 1 and General Chemistry.

4. **Sanitary Science.** Lectures, second term, one hour.

5. **Human Osteology and Comparative Anatomy.** Recitations and dissections. First term.

6. **Human Anatomy.** Recitations and dissections. Second term.

7. **Normal Histology.** Recitations and lectures, and laboratory work. Second term.

8. **Embryology.** Recitations, lectures, and laboratory work. First term.

9. **Biology.** Recitations and dissections. First term.

10. **Invertebrate Zoology.** Recitations and dissections. Second term.

11. **Vertebrate Zoology.** Recitations and dissections. Third term.

12. **Entomology.** Recitations and laboratory work.

13. **Organic Evolution.** Minor course. Second term, Junior year, two hours.

14. **Heredity.** Minor course. Third term, two hours.

15. **Phænogamic Botany.** Recitations, lectures, and field work. Third term.

16. **Cryptogamic Botany.** Recitations, lectures, and field work. Third term.

17. **Plant Physiology.** One hour.

18. **Elements of Forestry.** Lectures, recitations, and field work.

19. **Bacteriology.** Recitations, lectures, and laboratory work. Third term.

20. **Mineralogy and Geology.** Recitations, lectures, and laboratory work. First term.

21. **Economic Geology.** Recitations, lectures, and laboratory work. Second term.

22. **German Biological Literature.** Junior year, one hour.

MEDICAL PREPARATORY DEPARTMENT.

William Leiser, M. D.,
Lecturer on Diagnosis.

Weber L. Gerhart, M. D.,
Lecturer on Anatomy.

Charles Alexander Gundy, M. D.,
Lecturer on Surgery.

George G. Groff, M. D., LL. D.,
Professor of Anatomy and Physiology.

Nelson Fithian Davis, SC. D.,
Professor of Biology.

William Gundy Owens, A. M.,
Professor of Chemistry.

For the present Bucknell University does not offer a full course of medical study nor confer degrees in medicine; but offers the preparatory studies and most of the non-clinical studies of the first two years of the courses required in the Medical Colleges. The student can select from the medical subjects offered at Bucknell University such as will be required for advanced standing in the Medical College in which he may wish to complete his studies for the degree in medicine, and if his standing in such subjects averages not less than nine, he will receive from the Department of Medicine in Bucknell University a certificate of proficiency in those subjects and in such other subjects related to medical studies as he may have completed at Bucknell. These subjects are open only to students in the college of Liberal Arts, and the Certificate of proficiency is given to students only upon graduation, and in addition to the Diploma of the College of Liberal Arts.

1. **Animal Physiology.** Recitations, lectures, and laboratory work. Second term, Experimental Physiology. Third term.

4. **Physiological Psychology.** Recitations, lectures, and experiments.

3. **Neurology.** Recitations, lectures, and laboratory work.

4. **Physiological Psychology.** Recitations, lectures, and experiments.

5. **Pathology.** Recitations, lectures, and autopsies.

6. **Sanitary Science.** Recitations and lectures.

7. **Human Osteology and Comparative Anatomy.** Recitations and dissection.

8a. **Human Anatomy.** Recitations and dissection of human body.

8b. **Human Anatomy.** Recitations and dissection of human body.

9. **Normal Histology.** Recitations, lectures, and laboratory work.

10. **Embryology.** Recitations, lectures, and laboratory work.

11. **Biology.** Recitations and dissections.

12. **Invertebrate Zoology.** Recitations and dissections.

13. **Vertebrate Zoology.** Recitations and dissections.

14. **Phænogamic Botany.** Recitations, lectures, and field work.

15. **Cryptogamic Botany.** Recitations, lectures, and field work.

16. **Bacteriology.** Recitations, lectures, and laboratory work.

17. **Materia Medica.** Chemical preparations.

18. **Descriptive Chemistry.** Recitations and laboratory work.

19. **Analytical Chemistry.** Recitations and laboratory work.

20. **Quantitative Analysis.** Recitations and laboratory work.

21. **Toxicological and Urine Analysis.**

22. **Physiological Chemistry.** This course includes such chemical determinations as are of special importance to medical students.

THE BIOLOGICAL LABORATORY.

The Biological Laboratory is equipped with apparatus for carrying on work in the Organic Sciences. A large room has been fitted up especially for Microscopic work with equipments for fifteen students. Each student has a separate desk containing a microscope and the necessary reagents. The Laboratory is also supplied with collecting and bacteriological apparatus, with books of reference, and other appliances necessary for carrying on Biological research. Those taking Microscopy have the use of microtomes, incubators, reagents, etc. New apparatus is added as occasion demands. The work of Zoölogy is illustrated by marine and fresh-water forms, skeletons, and mounted specimens. In comparative Anatomy and Osteology the work is illustrated by skeletons representing different types of vertebrates. Physiology is illustrated with human skeletons, a life-size French manikin, prepared tissue, and numerous charts. Material for Human Anatomy is received from the State Anatomical Board in Philadelphia, and each student has the opportunity to dissect the whole human body. The work in Materia Medica is illustrated by specimens of crude drugs. The student in Histology and Embryology has a good supply of paraffin and collodion blocks. The work is illustrated with microscopic slides, alcoholic material, and French wax models. Each student is provided with dissecting instruments.

THE MUSEUM.

Curator: Professor Nelson Fithian Davis, sc. d.

The University possesses good collections of illustrative material in Botany, Zoölogy, Histology, Geology, Mineralogy, and Materia Medica. Parts of these collections are kept in the laboratories are used in class-room work.

Since the erection of the Carnegie Library two large rooms in this building have been set aside as a museum, and during the year the principal collections will be transferred from the Main college to these rooms. A special effort is being made to secure additions to the museum and objects will be thankfully received, especially such as can be used in laboratory work. Among these may be mentioned: marine and fresh-water forms of life; insects; skeletons of vertebrates; birds and mammals; botanical specimens; crystalized minerals and rocks.

The largest collections now owned by the University consist of minerals and rocks, fossils, and Indian relics. It is especially desired to secure collections to illustrate the geology, minerals, flora, and fauna of Pennsylvania. Recently attention has been given to increasing the collection of Pennsylvania birds, and it is hoped that within a short time the University may possess a good series of mammals also.

During the past year contributions have been received from the following: Luther Smith, M. G. Groff, Dr. William Leiser, Dr. T. C. Thornton, Lehigh Portland Cement Co., Pennsylvania Railroad, J. W. Weddle, and Dr. Leedom Sharp.

THE LIBRARIES AND READING ROOMS.

Librarian: Professor William E. Martin, a. m.
Assistants: Thomas B. Powell, Frances E. Williams and Edwin R. Manchester.

The College Library. The general library contains about twenty-six thousand volumes, besides many thousand pamphlets. The reading room is connected with the library, and offers facilities for reading, studying, and writing. During term-time both are open forenoon, afternoon, and evening of each day, Sundays and holidays excepted, and both are maintained without extra charge to students. Students in all departments have free access to the

shelves, and may draw two books at one time and retain them for two weeks, with the privilege of one renewal, if desired.

For greater convenience of instructors and students, collections of special technical books are also kept in the Laboratories of the Physical and Organic Sciences, and in the Astronomical Observatory.

The library is regarded as a working laboratory for all departments of instruction, students being constantly cited to it in class-room work. In this way, while answering the purpose of general culture, it supplements in great measure the monographic treatment of text-book study, and the student is trained under competent guidance to become an investigator. The resulting practical acquaintance with books and bibliography proves a valuable part of liberal education.

The Carnegie building for the accommodation of the library was erected in 1905, the gift of Hon. Andrew Carnegie, D. C. L.

By aid of the Card Catalogue and Pool's Index to Periodicals, all the resources of the library on any given subject are at once available.

Gifts to the library of money and of books will be thankfully acknowledged by the librarian.

GENERAL COLLEGE ORDERS.

ATTENDANCE.

Only under exceptional circumstances will excuses be granted to leave College during term time. In such cases the examination on the studies gone over by the class, during a student's absence, will be especially searching, and a high degree of attainment will be required. When a student is absent more than one fourth of the term for any reason, he is required to stand private examination in addition to the examination required of the class. One who is absent during the entire term must also necessarily lose his standing in his class. The work of the term begins on the day of opening, and recitations are expected at the first hour appointed for the meeting of the classes. The work continues uninterruptedly, with the exception of holidays marked in the Calendar, until the last day of the term.

STANDING.

Each instructor records, in numbers ranging from 0 to 10, the character of the recitation of every student reciting to him, and notes also any delinquency in conduct and attendance. The weekly summary of these markings is recorded in permanent books, and constitutes the basis for determining the standing of the student during his connection with the institution. Unexcused absences from recitations are counted as zero in making up the weekly averages. *Excused* absences have half the effect in lowering a student's standing as unexcused absences, but a student may, at the option of the professor do supplementary work to obviate the effect upon his standing of excused absences. At the close of each term an average of these marks is made out, and a report of the scholarship, attendance, and conduct of each student is transmitted to his parent or guardian by the President. No student is advanced from one class to another whose average in any study is less than 7; nor is any student recommended to the Board of Trustees for graduation in the general courses if his average standing during either his Freshman or Sophomore year is below 8; or if in his

Junior year it is below 8.5; or if in his Senior year it is below 9. The passing grade for graduate students is 9. No one will be recommended for graduation in the Course of Jurisprudence, Biology, Chemistry, and in Civil Engineering, nor be granted a certificate in the Law or Medical studies, if his average is below 9.

Conditioned students are not recommended to the Board of Trustees for promotion. Students conditioned on entrance must discharge such conditions within the first year thereafter.

If the student has failed in the studies of a term, he will not be permitted to enter upon the studies of a subsequent term until he has passed in the subjects in which he failed, unless a postponement of examination to a definite time is granted by the Faculty.

Appointments in the Graduating Class are made according to the aggregate standing of each member during his entire course. But in assigning these parts the Faculty takes into account the deportment of the student, as well as marks for recitations. The minimum average for an Oration of the First Class is fixed at 9, and for an Oration of the Second Class at 8.

Students who attain an average of 9.4 or more for their entire course are graduated *summa cum laude;* students who attain an average of 9.2 or more are graduated *magna cum laude;* those who attain an average of 9 or more are graduated *cum laude.*

EXAMINATIONS.

The dates of the examinations are given in the Calendar. In case a student fails to be present at the examination of his class, for any justifiable reason, his examination will be held at such time as the Faculty may appoint, but in no case is an examination granted a student in advance of the time appointed for the examination of the class.

Unless for very good reasons to the contrary, a student who is granted a special examination will be required to pay a fee therefor.

PUBLIC WORSHIP.

The College duties of each day are opened with religious services in Bucknell Hall, which all the students of the College are required to attend.

Attendance upon public worship in some church in town on Sunday morning is required. Students must attend the religious services held on Thanksgiving Day.

On the Day of Prayer for Colleges, religious services are held in the forenoon, when a sermon is preached by the President, or by

some one at his request. All the students are required to attend. In the afternoon and evening services are held in Bucknell Hall, attendance upon which is advised, but not required.

GOVERNMENT.

It is assumed that all who enter upon the courses of study in the College do so for the purpose of acquiring an education, not only of the intellect, but also of character. The Laws of the College, enacted by the Board of Trustees, are as few and simple as the proper regulation of a community of young men will permit. These are printed, and a copy is placed in the hands of every student at the beginning of each year. These laws must be observed, not only in their letter, but in their spirit. The atmosphere of the institution is not that of arbitrary restraint, but of reasonable conformity to reasonable laws. The College does not wish to place its stamp or bestow its honors upon any one who is not willing to deport himself as a gentleman. Each student is distinctly placed upon his manhood, and if he abuses his privileges, after reasonable caution, he must withdraw from the institution.

PRESIDENT'S OFFICE HOURS.

The President of the University is in his office in the Main College building, every Tuesday, from 9.30 A. M. to 12 noon, to confer with students who may desire advice or assistance. Students are encouraged to communicate frankly with the President upon any subject in which he may be of help to them.

OFFICE HOURS FOR THE COLLEGE WOMEN.

The Dean of the Women's Department will meet in his office College women who may desire advice or assistance from him.

VOLUNTARY SOCIETIES.

Euepia; Theta Alpha. These are the two Literary Societies of the College for men. They hold meetings for Orations, Essays, and Debates. Each Society has a convenient hall, and by an arrangement of the Faculty will always have a nearly equal number of members.

The Zeta Literary Society is composed of young women admitted to any of the courses in the College.

The Young Men's Christian Association is formed of students from College. It receives religious periodicals and corresponds with kindred societies. A hall has been appropriated to the Society, and has been suitably furnished for religious meetings.

The Students' Publication Association is an organization which has in charge the issuing of the *Bucknell Mirror*. This periodical appears monthly during the collegiate year. The same Association publishes the *Commencement News* daily during Commencement week.

Another association of students publishes, weekly, during the school year, the *Orange and Blue*.

The Athletic Association of the College has been formed to encourage and regulate athletic sports. Considerable liberty is allowed the Association in carrying out its purpose. The Association is not allowed, however, to arrange match games with other similar bodies without having secured the consent of the Faculty.

No student who is deficient in rhetorical or class-room work in any term shall be eligible to the office of manager or director in any student organization, or to be a member of any exhibiting organization, or of any contesting athletic team, or of any publishing or editing board during any subsequent term until such deficiency is made up.

HEALTH AND PHYSICAL CULTURE.

GEORGE W. HOSKINS, PHYSICAL DIRECTOR.

The Tustin Gymnasium has been provided for the physical training and development of young men. Young women have opportunity for physical training in the Gymnasium of the institute. These are now provided with the apparatus usually found in well-furnished gymnasiums. The Directors of the Gymnasium examine every student, taking and recording in a book his physical measurements, and prescribe such exercise as may be required for his physical development. Regular exercise in the Gymnasium is required of all students during the winter term.

AIDS AND HONORS.

PRIZES.

The prizes are awarded to the persons who in the judgment of the several committees attain the highest degree of excellence among the respective competitors, but no prize is bestowed unless a high degree of merit has been attained by the person receiving it.

THE PRIZE OF THE CLASS OF '71.

This prize, established by the Class of 1871, is awarded to the student of the Freshman Class who shall prove himself best prepared for College in the two branches, Latin and Mathematics, and who shall have received his preparatory training at Bucknell Academy.

The prize for 1905 was awarded to Will Carleton Sprout.

THE FRESHMAN DECLAMATION PRIZE.

A prize is awarded to the member of the Freshman Class who shall excel in declamation at the Annual Contest of the Freshman Class.

The prize for 1905 was awarded to Reuben Shrum.

THE SOPHOMORE DECLAMATION PRIZE.

A prize is awarded to the member of the Sophomore Class who shall excel in declamation at the annual contest of the Sophomore Class.

The prize for 1905 was awarded to Gilbert Somers Perez.

DECLAMATION PRIZES FOR WOMEN.

Prizes for the best declamation, open for competition to the Sophomore and Freshman Classes, were awarded in 1905 respectively to Margaret A. Rowlands and Blanche Baer.

THE REGISTRAR'S PRIZE.

The Registrar of the University offers a prize to that member of the Junior Class who shall pronounce the best oration at the Junior Exhibition in Oratory.

The Junior oratorical prize was awarded in 1905 to Henry Jones.

The corresponding prize for Women was awarded in 1905 to Sophia Louisa Bodler.

THE JUNIOR DEBATE PRIZE.

Prizes are awarded to the two members of the Junior Class who evince superiority in debate at the Junior prize contest.

The first prize was awarded in 1905 to William Eugene DeMelt; the second to Lynn Clark Drake.

THE HOLLOPETER PRIZE.

William C. Hollopeter, M. D., Class of 1874, has established an annual prize for excellence in Chemistry, to be awarded to that student at graduation who shall have done the best work in Chemistry, regard being had both to the amount and quality of the work.

The prize was awarded in 1905 to Harold Edward Tiffany.

THE HERBERT TUSTIN PRIZE.

In memory of his deceased son, the late Professor Francis Wayland Tustin, Ph. D., of the Class of 1856, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the Herbert Tustin Prize Fund, the interest of which is to be forever paid annually as two prizes, in the proportion of fifteen dollars for the First Prize, and of ten dollars for the Second Prize, to the two students of the Senior Class who shall have attained the highest and the second highest standing in Psychology and Ethics (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in college shall have been without exception."

The first prize was awarded in 1905 to Roy Grier Bostwick; and the second to Alvin Monroe Weaver.

THE HERBERT GOODMAN BARROWS PRIZE.

In memory of his son, the Reverend William Barrows, A. M., of the Class of 1867, paid to the Trustees of the University the sum

of five hundred dollars, "as the foundation of the HERBERT GOODMAN BARROWS PRIZE FUND, the interest of which is to be forever paid annually as two prizes of equal amounts to the student or two students of the Senior Class who shall have attained the highest standing, respectively, in the Latin and in the Greek language and literature (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The prize for excellence in Greek was awarded in 1905 to Norman Elwood Henry; the prize for excellence in Latin was awarded in 1905 to Ferne Frick Braddock and Margaret Forgeus.

THE JOHN SPRAGUE PRIZE.

The Rev. Thomas Harry Sprague, Ph. B., of the Class of 1897, offers an annual prize to the student who excels in the courses in the English Bible, to be named in memory of his father, THE JOHN SPRAGUE ENGLISH BIBLE PRIZE.

The prize was awarded in 1905 to Nellie May Goddard and Earl Austin Morton.

THE CHAPLAIN J. J. KANE PRIZE.

The Reverend James J. Kane, A. M., Chaplain of the United States Navy, and a graduate from the Theological Department of this University, of the Class of 1867, has established a prize which is to be given annually to that member of the graduating class who delivers the best oration on Commencement Day.

The prize was awarded in 1905 to Nellie May Goddard.

SCHOLARSHIPS.

I. THE BUCKNELL SCHOLARSHIPS.

The William Bucknell Scholarships, twenty in number and of $1,000 each, were established for the purpose of aiding worthy young men in securing an education which will increase their usefulness in life. The income from this fund is to be paid annually to twenty young men, in accordance with the rules which will be made

known upon application to the Committee of Examination, consisting of the President of the University. H. S. Hopper, Esq., and Professor Rockwood.

II. SCHOLARSHIPS FOR MINISTERS' CHILDREN.

Scholarships upon the general foundation have been established for the children of ministers of the Gospel, of all denominations, in active service.

III. THE LIVINGSTON SCHOLARSHIPS

Established from a legacy of M. B. Livingston, twenty-two in number, are available for students for the Ministry.

IV. THE LONGAN SCHOLARSHIP.

The Longan Scholarship, established from a legacy of O. W. Longan, Esq., is available for a student for the Ministry from Lycoming County, Pennsylvania.

V. THE LEWIS E. JONES SCHOLARSHIP

Was established from a legacy of the late Lewis E. Jones, and is available for students of Welsh descent to the amount of the income from five hundred dollars.

VI. THE MEDICO-CHIRURGICAL SCHOLARSHIP.

The Medico-Chirurgical Medical College of Philadelphia offers a scholarship covering tuition in that College to the student from Bucknell University who evinces the best preparation and aptitude for medical work.

VII. THE PHILADELPHIA ALUMNAE SCHOLARSHIP.

This scholarship, founded by the Philadelphia Alunmae Club, is available for a young woman student from Philadelphia.

VIII. THE GENERAL MILLER SCHOLARSHIPS.

Ten scholarships have been established by Major-General Charles Miller, A. M., to be awarded to worthy members of the graduating class.

IX. ANNUAL SCHOLARSHIPS.

A number of persons have established annual scholarships for the aid of young men or women attending college. Information concerning ministerial and annual scholarships can be obtained from the President of the University.

HONOR STUDIES.

In order to promote special scholarship in the several departments of study the following provision has been made:

1. Any student who has obtained an average of 9 in the studies of the previous term may take special work in any department of the College under the direction of the Professor of that department.

2. Such work must be assigned by the Professor, and the method of study prescribed by him.

3. If the student shall attain an aggregate average of 9 in all the studies of the current term, and pass a satisfactory examination in the voluntary study, the work shall be credited to him in the Annual Catalogue of the College.

4. Only one such study shall be pursued by any one student during any one term. A student may also take two honor studies in the Summer vacation.

5. The Professor with whom the student is working shall have the privilege of requiring a partial examination on the work done at any time during the term, and there may be regular recitations at the Professor's option.

6. The amount and quality of this extra work shall be taken into account in awarding honors at graduation, but is not counted for the Bachelor's degree.

EXPENSES.

The College charges amount to $100 per annum, for those who room in the College buildings, and $90 for those who room in the town. The College charges include library fee, gymnasium fee, and other incidental fees common to all students, as well as tuition. Tuition is rated at $50 per annum, and is included in the College charges. Students in the course in Civil or Electrical Engineering are charged $5 per term extra. Students in the other courses who take an engineering subject are charged the same rates as students

in engineering. This charge is for the regular work; when a fourth study or honor study is taken, an extra charge is made. Graduation fee and diploma, $10. Masters' Degree and Diploma, $10.

The Study Rooms in the Main College are so arranged that two students occupy the same study. The Dormitories are intended to accommodate only one person, so that each student has his own private sleeping room. These are furnished with spring bedsteads. The student must supply himself with all other furniture. Students are responsible for damage to their rooms, whether it be done when they are present in the room or absent from it.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled.

An extra charge is made for electric lighting of private rooms.

An extra charge ranging from $5 to $10 per term is also charged for rooms in the West College.

An additional charge is made for rooms cared for by the Institution.

Young men in the Collegiate Department, who so desire, can have furnished rooms in the West College, with board in the Academy.

Young women in the Collegiate Department room and board in the Women's College. The standard annual charge for board, tuition, furnished room, heating, lighting, is $265. An extra charge for choice rooms in the Bucknell Cottage and in the New Cottage, ranging from $5 to $10 per term, is made.

The assignment of rooms are for one year, and are made the first Monday morning in June, immediately after the devotional exercises in Bucknell Hall. Students from a distance will save inconvenience by applying to the Registrar for a room before the term opens. A deposit of ten dollars is required when a room is chosen. This amount is credited upon the regular term bills. Should a student for good reason be unable to return, the deposit will be refunded, provided notice is sent to the Registrar not less than four weeks before the opening of the term for which the room is engaged.

In the Laboratories students pay for chemicals used and for apparatus broken or damaged. In the chemical laboratory $5 per term is charged for gas, water, and general chemicals for each course, except Courses 1 and 2, for which the charge is $2.50. A deposit of $5 per course is required to cover breakage and cost of extra chemicals.

A small fee is charged also in each of the elective courses in the departments of Mechanics and of Organic Science and in Surveying

and Engineering, for the use of instruments and for material used.

Before entering upon the experimental courses students must deposit with the Registrar security for materials used.

These charges must be paid in advance at the beginning of each term.

No student is entitled to his place in his class until he has made settlement with the Registrar.

Students can board in clubs at a cost of from $2.00 to $2.50 per week. Boarding can be obtained in private families at $3.00 or $4.00 per week, or at the table of the Bucknell Academy at $3.00 per week. Washing is done at 25 cents per week. No self-boarding is allowed in the College buildings.

FIFTY-FIFTH ANNUAL COMMENCEMENT.

WEDNESDAY, JUNE 21, 1905.

HONORS AT GRADUATION.

ORATIONS SUMMA CUM LAUDE.

Roy Grier Bostwick,
Ferne Frick Braddock,
Laverda Adelia Burgart,
Vida Davenport,
Margaret Forgeus,
Nellie May Goddard,
Norman Elwood Henry,
Elizabeth Briton Meek,
Earl Austin Morton,
Vernon Nelson Robbins,
Ruth Amelia Shorkley,
Pearl Lois Smith,
Alvin Monroe Weaver,
Thomas Wood,
Martha Wolfe.

ORATIONS MAGNA CUM LAUDE.

Cottie Gudila Albright,
Jeremiah Stamey Ausherman,
Ralph Lesher Belford,
Emory Oliver Bickel,
Joseph S. Bittenbender,
Claire Marie Conway,
John Henry Eisenhauer, Jr.,
Edmund Roy Gardner,
Lynn Sumner Goodman,
Phares Gross Hess,
Laura Mae Hummel,
Harold Vonieda Lesher,
Jessie McFarland,
Inez Edna Olds,
Lee Russell Ranck,
John Calvin Sanders,
Charles Henry Scheick,
Anthony Steinhilper,
Ruth Stephens,
Nellie Thomas,
Harold Edward Tiffany,
Clifford Vernon Williamson.

ORATIONS CUM LAUDE.

William Andrew Bartol,
Mary Isabel Bower,
William S. Gilmore,
Roy Hanna,
Frederick B. Harding,
Clara Maude Hummel,
Elmer Azima Hummel,
Lewis Columbus Hylbert,

ORATIONS CUM LAUDE—Continued

Erskine Jarrett,
Nellie Estella Johnson,
Edith Hedges Kelly,
Lena Ruth Lesher,
Francis Leroy McCauley,
William Wallace Portser,
Roberts Dale Royer,
Blaine Walter Scott,
Samuel Major Seibert,
Eva Blanche Stoner,
John Beisel Smiley,
Irwin Wellington Ziegler.

ORATIONS.

William Frank Caruthers,
George Washington Cheesman,
George Washington Cockill,
Charles David Cooper,
Harry Allen Coryell,
Ralph Elliott,
Clarence Lynn Fry,
William Amos Warren Grier,
John Charles Groff,
Levi Morrill Hainer,
Donald Rockefeller McCain,
Robert Bruce Mackey,
Charles Stephen Marsh,
Clarence Ira Phillips,
Robert Francis Sheppard,
Paul Garfield Smith,
Albert Ogden Vorse.

DEGREES CONFERRED ON EXAMINATION.

MASTER OF ARTS.

Blanche Allyn Bane,
Charles Isaiah Boyer,
Remembrance Forde Bresnahan,
Emanuel Wilson Cober,
John Davis,
John Warren Davis,
Charles Hodge Ealy,
Charles Fred Eisenmenger,
Benjamin W. Griffith,
Joseph Chalmers Hazen,
Norman Elwood Henry,
Charles Dison Koch,
Thomas Phillips Kyle,
John Grant Lauderbaugh,
Charles Franklin McMann,
Ralph Renssaeler Snow,
Ernest Launcelot Taylor,
Charles Wesley Williams,
Howard King Williams,
Roger Henry Williams.

MASTER OF SCIENCE.

William Nogel Marsh,
Harry Sill Mauser,
Thornton Moore Shorkley,
Samuel Calvin Smith,
Augusta Genevieve White,
Thomas Lamar Williams.

BACHELOR OF ARTS.

Jeremiah Stamey Ausherman,
Joseph S. Bittenbender,
(Jurisprudence.)
Roy Grier Bostwick,
(Jurisprudence.)
Ferne Frick Braddock,
Laverda Adelia Burgart.
George Washington Cheesman,
Claire Marie Conway,
John Henry Eisenhauer, Jr.,
Margaret Forgeus,
Edmund Roy Gardner,
Nellie May Goddard,
William Amos Warren Grier,
Frederick B. Harding,
Norman Elwood Henry,
Phares Gross Hess,
Elmer Azima Hummel,
Lewis Columbus Hylbert,
Lena Ruth Lesher,
Francis Leroy McCauley,
Elizabeth Brinton Meek,
Earl Austin Morton,
(Jurisprudence.)
William Clayton Noll,
Vernon Nelson Robbins,
Roberts Dale Royer,
(Jurisprudence.)
John Calvin Sanders,
Charles Henry Scheick,
Ruth Amelia Shorkley,
Paul Garfield Smith,
Anthony Steinhilper,
Ruth Stephens,
Nellie Thomas,
Alvin Monroe Weaver,
Thomas Wood.
(Jurisprudence.)

BACHELOR OF PHILOSOPHY.

Cottie Gudila Albright,
Ralph Lesher Belford,
Emory Oliver Bickel,
Harry Allen Coryell,
Vida Davenport,
Lynn Sumner Goodman,
Levi Morrill Hainer,
Roy Hanna,
Edith Hedges Kelly,
Robert Bruce Mackey,
Inez Edna Olds,
Lee Russell Ranck,
Eva Blanche Stoner,
Clifford Vernon Williamson.

BACHELOR OF SCIENCE.

William Andrew Bartol,
Mary Isabel Bower,
William Frank Caruthers,
George Washington Cockill,
Charles David Cooper,
Ralph Elliott,
Clarence Lynn Fry,
William S. Gilmore,
John Charles Groff,
Clara Maude Hummel,
Laura May Hummel,
Erskine Jarrett,
(Civil Engineering.)
Nellie Estella Johnson,
Harold Vonieda Lesher,
Donald Rockefeller McCain,

BACHELOR OF SCIENCE—Continued

Jessie McFarland,
Charles Stephen Marsh,
Clarence Ira Phillips,
William Wallace Portser, (Civil Engineering.)
Blaine Walter Scott,
Samuel Major Seibert,
Robert Francis Sheppard,
John Beisel Smiley, (Civil Engineering.)
Pearl Lois Smith,
James Strimple, Jr.,
Harold Edward Tiffany, (Chemistry.)
Albert Ogden Vorse,
Martha Wolfe,
Irwin Wellington Ziegler.

BACHELOR OF LETTERS

Ella Beale, Lillian Beale.

HONORARY DEGREES CONFERRED.

DOCTOR OF LAWS.

Franklin Bach Stephenson, A. B., A. M., M. D.

DOCTOR OF DIVINITY.

Samuel Zane Batton, A. M., B. D.
Harrison Brower Garner, A. M., B. D.
John William Lyell, B. D.
Benjamin Fowler Gould McGee, A. M., B. D.

DOCTOR OF LETTERS.

Adoniram Judson Bonsall, A. M., B. D.

DOCTOR OF SCIENCE.

John George Becht, A. M. J. Archibald Smith, Sc. M.

MASTER OF ARTS.

Col. John J. Carter,
James M. Stewart, M. D., Rev. William Futhey Gibbons.

MASTER OF SCIENCE.

Henry Brown Fowler, Sc. B.

COMMENCEMENT ADDRESSES.

Baccalaureate Sermon, ...The President

Sermon, Education Society, ...Maurice Penfield Fikes, d. d.

Address before the Literary Societies, ...John G. Scorer, ph. d.

Address before the Alumni Association,

Frank Marsden Goodchild, a. m.

Poem before the Alumni Association, ...James M. Stewart, m. d.

Annual Address, ...Rufus P. Johnston, d. d.

Address to the College Class, ...The President

TEACHERS' PERMANENT CERTIFICATES.

Awarded by the State of Pennsylvania to Graduates of Bucknell College, 1904-1905:—

Lizzie Lillian Foust, ph. b., ph. m.

Carrie Jeanette Halfpenny, sc. b.

John Davis, a. b., a. m.

Ernest Edward Johnson, ph. b., sc. m.

Phares Gross Hess, a. b.

Helen Agatha Selinger, sc. b.

Mabel Estella Wheeler, ph. b.

BACCALAUREATE THESES.

1. Social Development of Man,
   COTTIE GUDILA ALBRIGHT.
2. Should Pooling be Legalized,
   JEREMIAH STAMEY AUSHERMAN.
3. The Robber Barons,
   WILLIAM ANDREW BARTOL.
4. The Economic Basis of Expansion,
   RALPH LESHER BELFORD.
5. Horace Mann as an Educator,
   EMORY OLIVER BICKEL.
6. The Defects of the Present System of Corporation Taxation and its Possible Remedy,
   JOSEPH S. BITTENBENDER.
7. The Definition of Man,
   ROY GRIER BOSTWICK.
8. The Poet Caedmon,
   MARY ISABEL BOWER.
9. The Philosophy of Lucretius; Its Aim and Relation to Modern Thought,
   FERNE FRICK BRADDOCK.
10. A Companion of the Greek and English Tragedy,
    LAVERDA ADELIA BURGART.
11. Modern Railroad Engineering and Construction,
    WILLIAM FRANK CARUTHERS.
12. The Rise of Girolamo Savonarola,
    GEORGE WASHINGTON CHEESMAN.
13. The Movement of Gold,
    GEORGE WASHINGTON COCKILL.
14. Americans in Modern Fiction,
    CLAIRE MARIE CONWAY.
15. Past, Present and Future Questions in Silver,
    CHARLES DAVID COOPER.

16. Modern Reform in Pleading,
HARRY ALLEN CORYELL.

17. Burns' Attitude toward the Religious Doctrines and Practices of Scotland of His Day,
VIDA DAVENPORT.

18. The Education of the Senses,
JOHN HENRY EISENHAUER, JR.

19. Improvement of Yellowstone National Park,
RALPH ELLIOTT.

20. Charles the Great,
MARGARET FORGEUS.

21. Railway Consolidation and the Small Investor,
CLARENCE LYNN FRY.

22. City Parks, Public Control, Ownership and Operation,
EDMUND ROY GARDNER.

23. Government Supervision and Ownership of Railroads,
WILLIAM S. GILMORE.

24. Matthew Arnold's Philosophy of Life,
NELLIE MAY GODDARD.

25. Over Capitalization of Trusts,
LYNN SUMNER GOODMAN.

26. Railroad Legislation,
WILLIAM AMOS WARREN GRIER.

27. The English People Rulers of the World,
JOHN CHARLES GROFF.

28. The University and the Common Man,
LEVI MORRILL HAINER.

29. History of Bacteriology,
ROY HANNA.

30. Elementary Vital Phenomena,
FREDERICK B. HARDING.

31. Greece and Religious Thought,
NORMAN ELWOOD HENRY.

32. Immunity and Susceptibility,
PHARES GROSS HESS.

33. The Mystery Plays,
CLARA MAUDE HUMMEL.

34. John Haywood's Contributions to the English Drama,
ELMER AZIMA HUMMEL.

35. A Comparison of Gorboduc and King Lear,
LAURA MAE HUMMEL.

36. Development of the Brain,
LEWIS COLUMBUS HYLBERT.

37. Properties of Clays,
ERKSINE JARRETT.

38. The Philosophy of Montesquieu, Rosseau, and Voltaire as an Influence on the French Revolution,
NELLIE ESTELLA JOHNSON.

39. Greek Education,
EDITH HEDGES KELLY.

40. The Socialization of Labor,
HAROLD VONIEDA LESHER

41. The Conquest of Will in Adversity,
LENA RUTH LESHER

42. Fire Proof Construction and its Importance,
DONALD ROCKEFELLER MCCAIN.

43. The Influence of the Intellectual Awakening of the 13th and 14th Centuries upon the Thought of the Christian Church,
FRANCIS LEROY MCCAULEY.

44. John Knox as a Reformer,
JESSIE MCFARLAND.

45. Bacteria, Their Relation to the Daisy,
ROBERT BRUCE MACKEY.

46. Forms of Colonial Government,
CHARLES STEPHEN MARSH.

47. Was Wordsworth a Pantheist?
ELIZABETH BRITON MEEK.

48. The Foundations of Our National Life,
EARL AUSTIN MORTON.

49. The Development of American Colonial Literature,
WILLIAM CLAYTON NOLL.

50. Protection and Production,
INEZ EDNA OLDS.

51. Glacial Phenomena of Eastern United States,
CLARENCE IRA PHILLIPS.

52. The Construction of the Panama Canal,
WILLIAM WALLACE PORTSER.

53. Susceptibility and Immunity,
LEE RUSSELL RANCK.

54. The American Idea in James Russell Lowell,
VERNON NELSON ROBBINS.

55. The Authority of the United States Courts,
ROBERTS DALE ROYER.

56. Some Present Day Educational Forces in the United States,
JOHN CALVIN SANDERS.

57. What Determines Wages,
CHARLES HENRY SCHEICK.

58. Surgery of To-day,
BLAINE WALTER SCOTT.

59. The Importance and Unprogressiveness of Criminal Jurisprudence,
SAMUEL MAJOR SEIBERT.

60. Sunday Work in Colleges,
ROBERT FRANCIS SHEPPARD.

61. The Task of the Middle Age,
RUTH AMELIA SHORKLEY.

62. Our Principal Municipal Failing,
JOHN BEISEL SMILEY.

63. Trusts or Industrial Combinations,
PAUL GARFIELD SMITH.

64. The Place of the Cabinet in English Government,
PEARL LOIS SMITH.

65. Martin Luther's Influence on Freedom of Thought and Conscience,
ANTHONY STEINHILPER.

66. Benedict Arnold's Services to America,
RUTH STEPHENS.

67. Alexander Hamilton,
EVA BLANCHE STONER.

68. Public Ownership of Public Utilities,
JAMES STRIMPLE, JR.

69. Shelley's Point of View,
NELLIE THOMAS.

70. A Review of Chemical Progress as a Science,
HAROLD EDWARD TIFFANY.

71. Federal Control of Railroad Rates,
ALBERT OGDEN VORSE.

72. The Essence of Republican Government,
ALVIN MONROE WEAVER.

73. Adjustment, the Foundation of all Development,
CLIFFORD VERNON WILLIAMSON.

74. The Basis of Civil Liberty,
THOMAS WOOD.

75. The Early Teutonic Ideas of Legal Procedure,
MARTHA WOLFE.

76. The English Miracle Plays,
IRWIN WELLINGTON ZIEGLER.

THE ACADEMY.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY.

BENJAMIN F. THOMAS, A. M., PRINCIPAL,
LATIN.

MARTIN LINNAEUS DRUM, PH. B.,
MATHEMATICS.

WILLIS EDGAR MANEVAL, SC. M.,
SCIENCE.

LOUIS WILLIAM ROBEY, A. B.,
GREEK AND LATIN.

WALTER SAMUEL WILCOX, SC. B.,
HISTORY AND ENGLISH.

PHARES GROSS HESS, A. B.,
ENGLISH AND GERMAN.

WILLIAM CHRISTIAN GRETZINGER, A. M.,
REGISTRAR OF THE UNIVERSITY.

ACADEMY STUDENTS.

FOURTH FORM.

CLASSICAL.

NAME.	RESIDENCE.	ROOM.
William Hayes Gatehouse,	*Frostburg, Md.*	Lewisburg
Max Conrad Wiant,	*Connellsville.*	No. 12, Main Hall

LATIN SCIENTIFIC.

Herbert Gray Foster,	*Watsontown.*	Watsontown
Stanley Aaron Krebs,	*Mahanoy City.*	No. 22, East Hall
Michael McMahan,	*Mt. Jewett.*	No. 8, East Hall

GREEK SCIENTIFIC.

Frederick Blaser,	*Philadelphia.*	No. 32, West Wing

SCIENTIFIC.

Carl Harry Erickson,	*Johnsonburg.*	No. 8, Main Hall
Herman Henry Klerx,	*Sunbury.*	No. 21, East Hall

NAME.	RESIDENCE.	ROOM.
FRANK JOSEPH LIDDY,	*Renovo.*	No. 21, East Hall
PALMER MARTIN WAY,	*Cape May Court House, N. J.*	No. 22, East Hall

THIRD FORM.

CLASSICAL.

FRANK PETER BOYER,	*Cowan.*	No. 5, Main Hall
CHARLES HUNTER HEACOCK,	*Turbotville.*	No. 5, Main Hall
JOHN PARK LINTON,	*Philadelphia.*	No. 20, East Hall
EVAN WELLING THOMAS,	*Lewisburg.*	East Market Street
EARL GLADSTONE WATKINS,	*Scranton.*	No. 6, Main Hall

SCIENTIFIC.

RUSSELL STUART BOYD,	*Galeton.*	No. 13, East Hall
RAY WILLIAM FINCH,	*Athens.*	No. 8½, East Wing
FRANCIS HARPER HUTCHISON,	*Sunbury.*	Sunbury
FRANK ISAMI KAWASHIMA,	*Tokio, Japan.*	No. 4, Main Hall
PHILLIP FEOLETTE MERSHAM,	*Lewisburg.*	South Third Street
HERBERT MURRAY OSBORN,	*Milton.*	Milton

NAME.	RESIDENCE.	ROOM.
GALEN RAY SMITH,	*Beaver Springs.*	No. 18, East Hall
DANIEL ARTER STANLEY,	*Greensburg.*	No. 14, East Hall
ARTHUR STEWARD WAHL,	*Reading.*	No. 12, Main Hall
LEON WILSON WATROUS,	*New York City.*	North Third Street

SECOND FORM.

PAUL IRWIN BLYLER,	*Winfield.*	Winfield
LA RUE EDGAR BROWN,	*Lewisburg, R. F. D.*	Lewisburg
PAUL RHOADES CARVER,	*Snydertown.*	No. 11, East Hall
HARRY ALONZO COTTON,	*Lewisburg*	Lewisburg
IVAN DALTON DOVERSPIKE,	*Kittaning.*	No. 14, East Hall
CHARLES EDGAR DREHER,	*Paxinos.*	No. 23, East Hall
GONZALO ESPEJO,	*Merida, Yucatan, Mex.*	No. 38, West College
ROBERT JAMES GEMMILL,	*Allenwood.*	Allenwood
ARTHUR R. GERHART,	*Lewisburg.*	North Third St.
CHARLES ADIN HALDEMAN,	*Mahanoy City.*	No. 20, East Hall
FRANK RUSSELL HAMBLIN,	*Lewisburg.*	South Third Street
COLEMAN JOHN HARRIS,	*Lewisburg.*	University Ave.

NAME.	RESIDENCE.	ROOM.
James Pardon Harris,	*Lewisburg.*	University Ave.
Laurence Ambrose Henderson,	*Montgomery.*	Montgomery
Joseph Clyde Lawton,	*Paxinos.*	No. 15, East Hall
Harry Ray Lohman,	*Milton.*	Milton
Harold Ritchey McDowell,	*Franklin.*	No. 20, East Hall
John Ake McKeage,	*Burnside.*	No. 14, East Hall
Miles Ottimer Noll,	*Lewisburg, R. F. D.*	Lewisburg
Harry Gundy Pawling,	*Bucknell.*	Bucknell
Gilbert Schoch,	*Lewisburg.*	S. Second St.
Paul Lowery Stein,	*Lewisburg.*	S. Third St.
John Lester Strassner,	*Lewisburg, R. F. D.*	Lewisburg
Charles Lautz Wagner,	*Lewisburg, R. F. D.*	Lewisburg

FIRST FORM.

Arthur Berrayarza,	*Cienfuegos, Cuba.*	No. 17, East Hall
Gustavo Bernard,	*Havana, Cuba.*	No. 11, Main Hall
Jacob Evans Boyer,	*Sunbury.*	No. 8, East Hall
Charles Garate,	*Matamoras, Mexico.*	No. 20, East Hall

NAME.	RESIDENCE.	ROOM.
Homer Dale Hoffa,	*Lewisburg.*	North Third Street
Walter Joseph Kirschbaum,	*Williamsport.*	No. 9, East Hall
James Focht McClure,	*Lewisburg.*	University Avenue
Raymond L. Robinson,	*Millville, N. J.*	No. 10, Main Hall
Harold Augustus Shaffer,	*Lewisburg.*	South Second Street

STUDENTS PURSUING SELECT STUDIES.

Charles Weiser App,	*Lewisburg.*	Lewisburg
Fernando Berrayarza,	*Cienfuegos, Cuba.*	No. 19, East Hall
Mario Berrayarza,	*Cienfuegos, Cuba.*	No. 11, Main Hall
Joseph Butler,	*Palmyra, N. J.*	No. 13, East Hall
Robert Edward Coxey,	*Sunbury.*	Sunbury
Francis Victor Donnelly,	*Marguerite.*	No. 20, East Hall
Jesse Eigleberner,	*Lewisburg.*	South Third Street
John Samuel Hoover,	*Snydertown.*	No. 11, East Hall
Ernest Jacob Kirschbaum,	*Williamsport.*	No. 9, East Hall
Ralph Warren Kunkle,	*Lewisburg, R. F. D.*	Lewisburg
Leon Leon,	*Mexico, Mex.*	No. 19, East Hall

NAME.	RESIDENCE.	ROOM.
Roy Edward Miller,	*Wiconisco.*	No. 14, East Hall
David Malcolm Moore,	*Summerville.*	No. 18, East Hall
Blaine James Morgan,	*Robertsdale.*	No. 8, Main Hall
Harold McClure Neff,	*Sunbury.*	Sunbury
William Edwin Parsons,	*Montgomery.*	No. 6, East Wing
Michael Reabold, Jr.,	*Mauch Chunk.*	No. 10, Main Hall
John Rovirosa,	*Puerto Principe, Cuba.*	No. 17, East Hall
William Agnew Sweitzer,	*Adamstown.*	No. 10, East Hall
Herman Hutson Tulley,	*McKeesport.*	No. 73, West College
James Wendell Vernam,	*Hickory.*	No. 31, West Wing
Gonzalo Zavala,	*Merida, Yucatan, Mexico.*	No. 11, East Hall

SUMMARY.

The Fourth Form, Classical	6
Scientific	4
	—10
The Third Form, Classical	5
Scientific	10
	—15
The Second Form	24
The First Form	9
Students Pursuing Select Studies	22
	55
Total in the Academy	80

Students enrolled in other departments of the University who receive instruction in the Academy classes:

Greek of the Fourth Form	2
Third Form	7
Latin of the Second Form	3
Third Form	4
Fourth Form	3
Mathematics	6
	—25
Total receiving instruction in Academy classes	105

COURSES OF STUDY.

The Academy is designed to fit pupils for College, for Teaching, or for Business. It offers three Courses of Study.

I. The Classical Course extends through four years and is arranged to meet the requirements for admission to College. The study of Latin begins with the First Form and continues for four years. The study of Greek begins with the Third Form and continues for two years. Notwithstanding the time given to these branches of study, fully one-half of the time of the entire course is devoted to English, Historical, Mathematical, and Scientific subjects.

II. The Latin Scientific Course extends through four years and furnishes adequate preparation for either division of the Philosophical Course in College. The First and Second Forms of the Classical and Scientific Courses are identical. In the Third and Fourth Forms, the student preparing for the Latin Division substitutes Historical and Scientific subjects for the Greek of the Classical Course; while the student preparing for the Greek division substitutes the Greek of the Third and Fourth Forms for the Latin and includes Historical and Scientific subjects.

III. The Scientific Course extends through four years and prepares for the Courses in General Science, in Biology, in Chemistry, and in Civil and Electrical Engineering in College. For the Vergil and the Cicero of the Latin Scientific Course, it substitutes one term of Advanced English, one term of Chemistry, and two years of German.

Students who are able to accomplish more work in the allotted time than is required by the Course may pursue honor work in the Classics by reading, under an instructor's direction, Cæsar's Civil War, Cicero's Letters, or Vergil's Eclogues, and Books IV, V, VI of the Iliad, or the Cyropædia.

Students will be admitted to the Form for which they are prepared.

Students who do not intend to enter College, but who desire a comprehensive academic training, will find the Scientific or the Latin Scientific Course well adapted to prepare them for teaching or for business.

Special classes in History and Literature will be maintained to meet adequately the requirements of applicants for examination and registration as students at law, under the rules adopted by the Supreme Court of Pennsylvania.

CURRICULA

Arabic numerals indicate the number of recitations a week in each subject.

I. THE CLASSICAL COURSE.

FIRST FORM.

I. Term—	Algebra, 5,	History, 5,
	Latin, 5,	English, 5.
II. Term—	Algebra, 5,	English, 5,
	Latin, 5,	Drawing, 5.
III. Term—	Geometry, 5,	History, 5,
	Latin, 5,	English, 5.

SECOND FORM.

I. Term—	Higher Arithmetic, 5,	Grecian History, 5,
	Cæsar, Introduction, 5,	Rhetoric, 5.
II. Term—	{ Book-keeping, / Commercial Arithmetic, 5,	Roman History, 5,
	Cæsar, 5,	Literature, 5.
III. Term—	Physical Geography, 5,	Literature, 5,
	Cæsar, 5,	U.S.History, Advanced. 5

THIRD FORM.

I. Term—	Algebra, 5,	Greek, 5,
	Cæsar, 5,	Elocution, 5.

II. Term—Algebra, 5, Greek, 5,
Cicero, 5, Literature, 5.

III. Term—Algebra, 5, Greek, 5,
Cicero, 5, Literature, 5.

FOURTH FORM.

I. Term—Geometry, 5, Cicero, 5,
Vergil, 5, Greek, Anabasis, 5.

II. Term—Geometry, 5, { Ovid, / Cicero, } 5,
Vergil, 5,
Iliad, 5.

III. Term—Physics, 5. Iliad, 5,
Vergil, 5, Anabasis, 5.

II. THE LATIN SCIENTIFIC COURSE.

FIRST FORM.

I. Term—Algebra, 5, History, 5,
Latin, 5, English, 5.

II. Term—Algebra, 5, English, 5,
Latin, 5, Drawing, 5.

III. Term—Geometry, 5, History, 5,
Latin, 5, English, 5.

SECOND FORM.

I. Term—Higher Arithmetic, 5, Grecian History, 5,
Cæsar, Introduction, 5, Rhetoric, 5.

II. Term—
{ Book-keeping, / Commercial Arithmetic, 5. Roman History, 5, Literature, 5.
Cæsar, 5,

III. Term—Physical Geography, 5, Literature, 5,
Cæsar, 5, U.S.History, Advanced, 5

THIRD FORM.

I. Term—Algebra, 5, Elocution, 5,
Cæsar, 5,
German, 5, or *History of England,* 5.

II. Term—Algebra, 5, Literature, 5.
Cicero, 5,
German, 5, or *Chemistry,* 5, or *Civics,* 5.

III. Term—Algebra, 5, Literature, 5.
Cicero, 5,
German, 5, or *Botany,* 5.

FOURTH FORM.

I. Term—Geometry, 5, *German,* 5,
Vergil, 5, or *Physiology,* 5.
Cicero, 5,

II. Term—Geometry, 5, { Cicero, / Ovid, } 5,
Vergil, 5,
German, 5, or *Astronomy,* 5.

III. Term—Physics, 5, *German,* 5,
Vergil, 5, or *Geology,* 5,
Solid Geometry, 5.

III. THE SCIENTIFIC COURSE.

FIRST FORM.

I. Term—Algebra, 5, History, 5.
Latin, 5, English, 5.

II. Term—Algebra. 5. English, 5,
Latin, 5, Drawing, 5.

III. Term—Geometry, 5, History. 5.
Latin, 5, English, 5.

SECOND FORM.

I. Term—	Higher Arithmetic, 5, Cæsar, Introduction, 5,	Grecian History, 5, Rhetoric, 5.
II. Term—	{ Book-keeping, { Commercial Arithmetic, 5, Cæsar, 5,	Roman History, 5, Literature, 5.
III. Term—	Physical Geography, 5, Cæsar, 5,	Literature, 5, U.S.History, Advanced, 5

THIRD FORM.

I. Term—	Algebra, 5, Cæsar, 5,	German, 5, Elocution, 5.
II. Term—	Algebra, 5, Chemistry, 5,	German, 5, Literature, 5.
III. Term—	Algebra, 5, Botany, 5,	German, 5, Literature, 5.

FOURTH FORM.

I. Term—	Geometry, 5, Physiology, 5,	History of England, 5, German, 5.
II. Term—	Geometry, 5, Astronomy, 5,	Civics, 5, German, 5.
III. Term—	Physics, 5, Geology, 5,	German, 5, Solid Geometry, 5.

METHODS OF INSTRUCTION.

The Preparatory Curriculum naturally falls into seven principal lines of study, viz.: English, German, Latin, Greek, History, Mathematics, and Natural Science. These combine, in due proportion, the cultural, the disciplinary, and the practical elements of intermediate education. The two great divisions of modern study, the Classical and the Scientific, are accorded adequate and appropriate preparation. The subjects, facilities, and methods of the various departments are explained below.

I. THE ENGLISH LANGUAGE.

A thorough grounding in the principles of English Grammar is indispensable to the student's progress in the subsequent language studies. The continuous application of this knowledge in Composition, and the constant comparison with the forms and idioms of the Ancient Languages, prepare the way for the study of elementary Rhetoric, and the appreciative reading of English and American Literature. This work is done in the First Form.

In the Second Form a review in the principles of English Grammar is given, and a practical application of the same, together with rhetorical structure in paragraph writing and composition.

In the Third Form the first term is devoted to the study of Elocution, and the remaining two terms take up the study of Literature. The reading and study of the masterpieces of English and American Literature is maintained by means of daily recitations. The work required is identical with the "Scheme of Uniform Entrance Examinations in English Language and Literature," adopted by the "Association of Colleges and Preparatory Schools of the Middle States and Maryland." It comprises (a) careful reading of representative works of certain authors, as literature; (b) thorough study as to "subject-matter, form, and structure" of other selections.

II. THE LATIN LANGUAGE.

The Course includes four years of Latin, embracing four books of Cæsar, six orations of Cicero, six books of Vergil, and twelve hundred lines of Ovid, besides a complete Course in Grammar and Composition.

Careful drill is given in the declensions and conjugations, in the use of the moods and the sequence of tenses, in the ready reading of the Latin text, in sight reading and in accurate translation into idiomatic English. Attention is given to the important personal, historical, and political elements in the writings of Cæsar and Cicero. In Vergil, the student is introduced to the poetry, legend, religion, and art of Rome. He is taught to investigate the allegorical, archæological, and mythical allusions of the Æneid, and to appreciate it as the mirror of the life of the Empire. Latin prosody is taught first from the text, and then from the grammar.

III. THE GREEK LANGUAGE.

The first two terms of the Third Form are spent in a thorough study of White's First Greek Book. In the third term Xenophon's Anabasis is read, and special attention is given to acquiring a vocabulary and to the forms and syntax of nouns, pronouns, and adjectives. In the first half of the Fourth Form the reading of Xenophon is continued. During the last half year Homer's Iliad is read, and the difference between the Homeric and Attic Forms is noted. Throughout the course Prose Composition is frequently required for the purpose of acquiring a vocabulary and a knowledge of syntax. The course includes four books of the Anabasis, four books of the Iliad, besides the Grammar and Prose Composition.

IV. THE GERMAN LANGUAGE.

One year's study of German is required of members of the Third and Fourth Forms of the Scientific Course. The same work may be elected by the members of the corresponding form of the Latin Scientific Course instead of the science subjects of that course. In the study of German, the aim is a thorough acquaintance with declensions and conjugations; facility of pronunciation; quick recognition of words both by the eye and the ear; as extensive a vocabulary as the time will allow; and by constant practice the laying of a foundation for reading, writing, and speaking the language.

V. HISTORY.

The course in History includes a survey of the History of the United States, of England, of Greece, and of Rome. The aim is to acquaint the student with the life, the genius, the institutions, and the achievements of the respective peoples, and their part in the wider history of mankind.

Additional courses are offered in Ancient, Mediæval, and Modern History, and extra courses in the historical readings required of applicants for examination and registration as students at law by the Supreme Court of Pennsylvania.

Civil Government is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments, the political history of the people, the interpretation and construction of the Constitution, are presented and discussed.

VI. MATHEMATICS.

Arithmetic. To students who are fitting themselves for business, a course is given in practical business Arithmetic, involving all the ordinary problems and practices in the business world. To those who are preparing for college or for teaching, instruction is given in the theory and science of Arithmetic. Pupils are expected to master the principles and then to formulate their own rules.

Algebra. The Third Form course extends through one year, and includes a knowledge of the fundamental principles, Factoring, Divisors, and Multiples, Fractions, Equations, Involution, Evolution, Theory of Exponents, Radicals, and Quadratic Equations. Daily blackboard work serves to apply the principles taught. The student is required both to know the methods of the solution of problems and also to explain the operation to the class.

The First Form takes up Algebra for the first two terms. The work is intended to give the pupils a knowledge of algebraic principles and to assist them in their Arithmetic. The third term is devoted to Concrete Geometry and Mechanical Drawing.

Plane and Solid Geometry. The instruction consists in daily recitations for three terms on the Theorems and Problems given in the text-book, with orginal demonstrations of the same propositions by the students from hints and figures given in the class-room. Besides this, considerable attention is given to the solution of original Propositions, and the application of principles thus learned to the solution of numerical problems.

Book-keeping. A practical introduction to the science of accounts is secured in the term devoted to mastering the principles of Double Entry Book-keeping. Careful attention is given to business forms, to the usages of Banks, and to the elements of

Commercial Law. The subject may be pursued in its more extended and intricate applications, as an elective, by properly qualified students.

VII. SCIENCE.

Physical Geography lays a foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The subject is illustrated by drawings, photographs, colored and relief maps, and specimens from the Museum.

Botany is taught by text-book, field exercise, plant analysis, and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

Physiology. Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics. Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin, and preparations are used in class.

Physics. The student is grounded in the elements of mechanics and physics. The apparatus of the College Laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiments, review, and repeated examination. The truth of principles is proved, except where the demonstration involves mathematics of the higher course in College.

Astronomy. Descriptive Astronomy discusses the earth's relations to the solar system, the masses, motions, and orbits of each member of it; the causes and consequences of the motions of the earth; general boundaries of the constellations of the Zodiac and northern heavens; the theories of comets, meteors, and nebulæ. Charts, star maps, globes, and other apparatus are used, and the

student is afforded privileges of observation in the College Observatory.

Geology. The student masters the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked, to produce changes are considered.

VIII. ORATORY.

Class Exercises. Members of the Fourth Form prepare and deliver two original orations each term. All other students have regular exercises in Composition and Declamation throughout the year. Public exercises are held on Saturday morning, before the faculty and students of the Academy. Visitors are cordially invited to these exercises.

In addition to the private rehearsals for the work above indicated, students in the Third Form receive daily instruction in elocution during the Fall term. The course includes careful drill in the Elementary sounds, in Articulation, and in expression; in Analytical Reading, including the Bible and Hymns; and the reading of Shakspere.

IX. SPECIAL BRANCHES.

Bible Study. The study of the Bible is pursued as a regular weekly recitation throughout the First, Second, and Third Forms, in all Courses of study. A scheme of study is arranged at the beginning of each year. It is intended that the successive schemes for the various years of the course will cover the Life of Christ, the historical portions of the Old Testament foreshadowing the Christ, and the history of the Apostolic Church.

The Study of Music may be pursued by Academic students under the instruction of Professor E. Aviragnet and his assistants, of the School of Music.

Drawing. All students of the Academy may receive throughout the year weekly lessons in Free-hand Drawing and Penmanship

without extra charge. Special individual instruction in Drawing in the Art Studio is afforded at twenty-four dollars per annum.

X. HEALTH AND PHYSICAL CULTURE.

The Tustin Gymnasium affords opportunity for physical exercise. The Directors of the Gymnasium give regular class exercises to the students of the Academy. Attendance upon physical training in the Gymnasium is obligatory during the Winter Term.

The Athletic Association of the Academy has been formed to encourage and regulate athletic sports. The Association is allowed to arrange match games with other similar bodies by first securing the consent of the Principal.

PUBLIC EXHIBITIONS.

THIRD FORM.

The Public Exhibition in Declamation by the Third Form will take place on Saturday evening, April 14th, 1906, in Bucknell Hall.

FOURTH FORM.

The closing exercises of the Academy will be the Public Exhibition in Oratory of the Fourth Form, on June 14th, 1906.

Diplomas and Certificates will be conferred Tuesday afternoon, June 19th, 1906.

GENERAL INFORMATION.

ADVANTAGES.

To the student seeking preparation for College, the Academy offers unusual inducements. Its proximity to the College secures to him an atmosphere of study, acquaintance with the guides and companions of his future course, and the benefit of numerous literary exercises to be found only in College towns. He has access to the College Library and Reading Room. The Academy is designed to fit pupils thoroughly for College and Technical Schools, and to lay broad and solid foundations for all subsequent scholarly culture and for the successful conduct of every-day affairs.

GOVERNMENT.

Students are encouraged to regard self-government as the only true government. It will be the constant endeavor to secure uprightness of character, gentlemanly deportment, and diligent application to work, by kind treatment, and high standards in conduct and study.

I. ADMINISTRATION.

1. The general control of the Academy is vested in the President of the University.

2. The government of the Academy, subject to such control, rests with the Principal of the Academy.

3. The government of each Hall is vested in the Instructor in charge, who resides in the Hall and enforces regulations for the Hours of Study, Academy Property, Hygienic Precautions, and General Deportment, and such other prudential regulations as may be ordered by the joint concurrence of the President of the University and the Principal of the Academy.

4. Each Instructor shall have charge of his classes with reference to attendance upon recitations. He shall report to the Principal cases of non-attendance, and inexcusable failure on the part of students to prepare regular lessons or special work assigned.

II. VIOLATION OF RULES.

1. Any officer of the Institution becoming cognizant of any violation of the regulations by any pupil shall report the same to the Principal of the Academy, who shall make a record of the fact in a book provided for the purpose.

2. Every violation of the laws and prudential regulations of the Academy will subject the offender to a penalty of demerits, graded according to the flagrancy and frequency of the offense.

3. When the sum of a pupil's demerits equal ten it shall be the Principal's duty to notify the parent or guardian of the offender, specifying the offense; for every additional ten demerits like notification shall be made.

4. Additional disciplinary penalties in the form of reprimand, "campus" suspension, dismissal, or expulsion, according to the necessities of the case, will follow repeated violations.

BUILDINGS AND ROOMS.

The Academy Buildings are described in detail in the introductory pages of the Catalogue.

The Main Building contains, besides its accommodations for other school and boarding purposes, rooms for students. The rooms are designed to accommodate two students each, and are twenty feet by twelve feet, and fourteen feet high. They are subdivided into a study room twelve feet by ten feet, and a sleeping room nine feet square.

The East Hall contains combined study and sleeping rooms, each designed for two students. These rooms are fifteen feet by twelve feet, with high ceilings, and contain two commodious closets and two single wire mattress beds with all necessary furniture.

UNFURNISHED ROOMS.

The Academy has a number of unfurnished rooms for the accommodation of students of mature years and of limited means. No attention by servants is given to these rooms, nor are lights supplied. Two students occupy a study room in common. The sleeping rooms are provided with single bedsteads with wire mattresses. All other furnishing is to be done by the occupants. While second-hand articles of furniture may be obtained here, it will be

to the student's advantage to bring from home bedding and carpets. The dimensions of the study rooms are ten feet by twelve feet; of the sleeping rooms, nine feet by nine feet.

ARTICLES REQUIRED.

Each student should be provided with an umbrella, overshoes, table napkins, towels, soap, and other articles usually required for personal comfort. All articles for the laundry should be marked with the owner's name.

BOARDING.

All students from a distance will occupy rooms and will board in the Academy, except for reasons jointly satisfactory to the President of the University and the Principal of the Academy.

The Principal and his family, the Instructors, and the Matron live in the building, take their meals with the boarders, and strive in all possible ways to secure the welfare and happiness of the students. The Instructors occupy rooms adjacent to the students' apartments. The appointments of the Dining Room, the character of the table supplies, the household service in general, are designed to furnish the comforts of a first-class boarding-house. So far as may be warranted by the deportment of the students, there will be absent from the home-life of the school all needless uniformity and irksome limitations, which disregard the reasonable individual preference of pupils.

The Academy gives to furnished rooms daily and complete attention, provides and washes all bedding and bed clothing, and supplies and cares for all lights.

Engagements for board and rooms are expected to continue without change to the end of the school year for which they are made.

APPLIANCES.

The Academy is in possession of excellent apparatus for instruction. A select Reference Library, containing Encyclopedias. Lexicons, Dictionaries, Atlases, and various other helps, is accessible to students at all hours. The Classical Recitation Rooms are provided with Kiepert's Wall Maps of Ancient Geography, and with Reinhard's Album of Ancient Antiquities, mounted. Metric apparatus, Maps and Globes render assistance in other directions.

The apparatus of the College also is accessible to the classes for purposes of experiment and illustration.

The College Library, numbering 26,000 volumes, is available for all students.

SCHOOL-ROOM.

In order to insure favorable conditions of study, the Academy maintains a commodious and well-appointed school-room. The school life centers in this room. Here, except when engaged in recitations, day students prepare their work, unless excused for a part of the time, for good cause; here, also, all the younger students of the lower forms prepare for their recitations. Advanced students and those of maturer years, who have acquired habits of independent study, are granted the privilege of preparing part of their work in their rooms, provided that they maintain high scholarship and excellent deportment.

HOURS.

The time devoted to study and recitation amounts to nine hours every week-day, except Saturday, when it is only two hours. This time should be sacred to its purpose. Parents of day pupils are requested to co-operate with the school in securing attention to evening study hours, and to avoid furnishing occasions or granting excuses for absence.

Students from a distance should be in Lewisburg on the day preceding the opening of each term, and no student should leave until the term has closed. Punctuality in attendance is essential to success in school work.

For terms and vacations, see the Calendar of the University.

STANDING AND PROMOTIONS.

The weekly averages of marks for recitations are recorded, and also failures in conduct and attendance. The scale for such markings range from 10, or perfect, to 0, or inexcusable failure. Unexcused absences count as zero.

Monthly and term examinations are held in the studies thus far completed, and term reports of the average in scholarship, attendance, and conduct of each student are sent to parents or guardians by the Principal.

No student is promoted to the next higher class whose grade in any study is less than 7.

Students who complete the Preparatory Courses of Study are admitted to standing in corresponding divisions of the Freshman Class in the College, upon the Principal's certificate, without examination.

All students who complete in a satisfactory manner any of the Courses of Study, and who have sustained irreproachable character during their school residence, shall be entitled to the diploma of the Academy.

Students attaining an average standing of 9 are encouraged to take work additional to the Regular Courses of Study.

PRIZES.

THE HARRY S. HOPPER PRIZE.

Mr. Harry S. Hopper, of Philadelphia, Chairman of the Board of Trustees, offers an annual prize for excellence in Composition.

This prize for 1905 was awarded to Charles A. Nyberg.

THE REV. DAVID PORTER LEAS PRIZE.

Rev. David P. Leas, of Philadelphia, Treasurer of Bucknell University, offers an annual prize to that member of the Third Form who shall excel in the Annual Exhibition of Third Form in Declamation.

This prize for 1905 was awarded to Max C. Wiant.

THE WILLIAM E. MARTIN PRIZE.

Principal Thomas offers an annual prize, named in honor of Professor William E. Martin, to that member of the Fourth Form who shall pronounce the best oration at the Academic Graduating Exhibition.

This prize for 1905 was awarded to Wallace McLaughlin.

LITERARY SOCIETY.

This is a voluntary organization of students for mutual improvement in literary and oratorical exercises. It has a large and convenient hall in the Main Academy Building, where meetings are held on Friday evenings.

RELIGIOUS SERVICES.

The duties of each day are opened with devotional exercises, which all students are required to attend. Devotional exercises are also held every evening, just before the evening study hour. All academic students residing on the University campus are required to attend these exercises.

Regular attendance at Sunday-school and upon public worship at some church on Sunday morning, is required; also upon services on Thanksgiving Day, and the Day of Prayer for Colleges. Attendance upon Christian Endeavor or other like Young People's Society, and the mid-week prayer-meetings, while voluntary, is strongly urged upon students.

Parents or guardians are requested to indicate to the Principal the church which they desire their sons or wards to attend.

The Academy students maintain a branch of the Young Men's Christian Association, which holds a weekly prayer-meeting on Tuesday evenings.

EXPENSES.

EAST HALL.

	Per Annum.
Tuition, Board, Furnished Room, Heat, Light, Care, Washing and Incidentals	$245 00

MAIN HALL.

Tuition, Board, Unfurnished Room, Heat, Washing, and Incidentals	205 00
Tuition and Incidentals to day pupils	65 00

All charges are payable to the Registrar of the University in advance, at the beginning of each term, that is. by the 25th of September, 10th of January, and 10th of April.

No student is entitled to his place in his class until he has made settlement for the term bills.

An extra charge will be made for washing more than twelve pieces per week.

Students who remain in the Academy during the holiday or spring vacation will be charged at the rate of $4.50 per week. Table boarders will be charged the regular rate, $3.00 per week.

Free scholarships covering tuition are provided in all the departments of the University for the children of Ministers of the Gospel *in actual service.* Tuition is rated at $36 a year.

The expenses for Music and Printing for Exhibitions and Anniversary occasions are paid by the classes for which such expenses are incurred.

For information respecting the Academy, address the President of the University, or the Principal, Benjamin F. Thomas, A. M.

THE INSTITUTE.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY.

THOMAS A. EDWARDS, A. M.,
DEAN OF THE DEPARTMENT FOR WOMEN,
INSTRUCTOR IN PSYCHOLOGY AND ETHICS.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,
VOCAL AND INSTRUMENTAL MUSIC AND THE ROMANCE LANGUAGES.

EMMA LOUISE BUSH, A. B., PRECEPTRESS,
TEACHER OF GERMAN.

JULIET AIKIN,
TEACHER OF INSTRUMENTAL MUSIC.

GRACE SLIFER, A. M.,
TEACHER OF LATIN AND ENGLISH.

MARY ANN HURSH UNGER, A. B.,
TEACHER OF ENGLISH HISTORY.

EDITH SCHILLINGER,
TEACHER OF ELOCUTION AND GYMNASTICS.

MAUDE CHAPMAN BLACKMER,
TEACHER OF VOCAL MUSIC.

EDITH J. METCALF,
TEACHER OF INSTRUMENTAL MUSIC.

RUTH ANGELINE BOTTORF,
TEACHER OF INSTRUMENTAL MUSIC.

SADIE S. WOLVERTON,
TEACHER OF INSTRUMENTAL MUSIC.

MARTIN LINNAEUS DRUM, PH. B.,
TEACHER OF MATHEMATICS.

WILLIS EDGAR MANEVAL, SC. M.,
TEACHER OF SCIENCE.

WILHELMINA M. DARLINGTON,
TEACHER OF ART.

PHARES GROSS HESS, A. B.,
TEACHER OF ENGLISH.

WILLIAM CHRISTIAN GRETZINGER, A. M.,
REGISTRAR.

DIRECTORY OF THE ALUMNÆ.

OFFICERS OF THE ALUMNÆ.

President, Mrs. Katherine Brown Larison.
Vice-President, Mrs. Calvin A. Hare.
Recording Secretary, Miss Grace Slifer.
Corresponding Secretary, Mrs. Dora Watrous Spratt.
Treasurer, Miss Ruth Shorkley.
Board of Managers,
The Officers of the Association, and Mrs. Mary Brown Martin and Miss Anna Van Gundy.

OFFICERS OF THE LEWISBURG ALUMNÆ CLUB.

President, Mrs. Katherine Brown Larison.
Vice-President, Mrs. Mary Brown Martin.
Secretary, Mrs. Eveline Stanton Gundy.
Treasurer, Mrs. Grace Roberts Perrine.
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OFFICERS OF THE PHILADELPHIA ALUMNÆ CLUB.

President, Mrs. Ira C. Leedom.
Vice-Presidents, Mrs. Daniel Sutter, Mrs. I. H. O'Hara.
Recording Secretary, Mrs. John Lynch.
Corresponding Secretary, Mrs. Amos Wakelin,
200 Bullitt Building, Philadelphia.
Treasurer, Mrs. Dewey A. Cobb,
648 N. Fifty-sixth Street, Philadelphia.

The Dean of the Department of Women will esteem it a favor if any graduate who changes her residence will give notice of her new address. He will also be grateful for any information that will assist in making the directory of the graduates and former students complete.

GRADUATES, CLASS OF 1905.

NAME.	RESIDENCE.
Elizabeth Baker,	Lewisburg
Julia Parthenia Brown,	Rochester
Mary Gudekunst Brown,	Allenwood
Mary Eleanor Halfpenny,	Lewisburg
Katherine Halfpenny,	Lewisburg
Laura Sharp,	Philadelphia
Margaret Maria Stoughton,	Lewisburg
Dorothy Walls,	Lewisburg
Jeanette Keen Wolfe,	Lewisburg

NAMES OF STUDENTS.

GRADUATE STUDENTS.

NAME.	RESIDENCE.	ROOM.
Elizabeth Baker,	*Market Street.*	Lewisburg
Eva Irene Ginter,	*Lewisburg.*	Market Street
Sarah Ethel Judd,	*Lewisburg.*	University Avenue
Rachel May Kunkel,	*Bucknell.*	Bucknell
Elizabeth Meek,	*Allenwood.*	Allenwood
Mary Georgiana Stanton,	*Chinchilla.*	South Third Street
Ruth Stephens,	*Lewisburg.*	South Sixth Street
Margaret Maria Stoughton,	*Lewisburg.*	Market Street
Dorothy Walls,	*Lewisburg.*	South Third Street
Jeanette Keen Wolfe,	*Lewisburg.*	St. George Street

THE SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
KATHERINE BECKLEY,	*Lewisburg.*	South Front Street
HANNAH FAIRCHILD DERR,	*Steelton.*	Women's College
NANCY HALL FINLEY,	*Georgetown, Ky.*	Women's College
GRACE GRIFFITHS,	*Lewisburg.*	South Fourth Street
RUTH ALMA KERSTETTER,	*Lewisburg.*	South Fifth Street
KATHERINE HOLZER SANNER,	*Frackville.*	Women's College
LOUISE ESSICK SAVIDGE,	*Sunbury.*	Sunbury
LEONORA MAE SHAMP,	*Lewisburg.*	St. Catharine Street
BEATRICE P. WEILL,	*Lancaster.*	Women's College
AMELIA MARGARET WENSEL,	*Lewisburg.*	South Sixth Street

THE FOURTH YEAR CLASS.

HELEN BERGER,	*Bangor.*	Women's College
HARRIET KREMER BOWER,	*Lewisburg.*	South Sixth Street
NELLIE WOODS BOWMAN,	*McKeesport.*	Women's College
MARY MATILDA BROWN,	*Lewisburg.*	Lewisburg

NAME.	RESIDENCE.	ROOM.
Sadie Emerson Burgess,	*Sadieville, Ky.*	Women's College
Ruth Young Chapin,	*Milton.*	Milton
Anna Grovania Follmer,	*Milton.*	Milton
Frances Groff,	*Lewisburg.*	Lewisburg
Helen Hare,	*Lewisburg.*	University Avenue
Anna Gaskill Hastings,	*Milton.*	Milton
Emily Heaton,	*Milton.*	Milton
Mary Heaton,	*Milton.*	Milton
Ada Ellen Moore,	*St. Clair, Mo.*	South Third Street
Emily Beck Reagle,	*Bangor.*	Women's College
Mildred Jessie Shaffer,	*Lewisburg.*	South Second Street
Miriam Catherine Shimer,	*Milton.*	Milton
Florence Elizabeth Shimer,	*Milton.*	Milton

THE THIRD YEAR CLASS.

Harriet Lucy Ballentine,	*Milan.*	Women's College
Alma Margaret Deitrich,	*Madisonburg.*	Women's College

NAME.	RESIDENCE.	ROOM
Anna Josephine Derr,	*Lewisburg.*	Market Street
Lucile Finley,	*Georgetown, Ky.*	Women's College
Charlotte May Hawk,	*Tower City.*	Women's College
Mary Anna Kline,	*Snydertown.*	Snydertown
Laura Ellen McGann,	*Lewisburg.*	South Third Street
Carol Frances Spratt,	*Lewisburg.*	North Third Street
Marguerite Watrous,	*New York City.*	North Third Street

THE SECOND YEAR CLASS.

Blanche Cox,	*Montandon.*	Montandon
Anna Kaler Dreisbach,	*Lewisburg.*	South Third Street
Myra Alverna High,	*White Deer.*	White Deer
Ernestine Susanna Hyatt,	*Lewisburg.*	North Front Street
Mamie Lou Hunter,	*Baltimore.*	Women's College
Bertha Pflegor,	*Montandon.*	Montandon
Lucile Savidge,	*Sunbury.*	Sunbury
Mary E. Starook,	*Lewisburg.*	Lewisburg

THE FIRST YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
HELEN KING BARTOL,	*Lewisburg.*	University Avenue
HANNAH BUBB,	*Lewisburg.*	University Avenue
EMMA MINCH CLEMENT,	*Mt. Ephriam, N. J.*	Women's College
MARGUERITE DUNCAN,	*Lewisburg.*	South Second Street
ELLEN WOLFE FOCHT,	*Lewisburg.*	South Second Street
MARIA AGNES SPYKER,	*Lewisburg.*	North Third Street
RUTH FURMAN TIPPETT,	*Sparrows Point, Md.*	Women's College

PURSUING SELECT STUDIES.

BESSIE ADAMS,	*Porter.*	Market Street
ALICE AMBLER ARMSTRONG,	*Merchantville, N. J.*	Women's College
LOUISE ALBRIGHT,	*Muncy.*	Market Street
ELIZABETH IRENE BARBER,	*Bridgeport.*	Women's College
LOIS MARY BROWN,	*Lewisburg.*	Lewisburg
ELEANOR ELIZABETH CORRIN,	*Franklin.*	Women's College
BESSIE CLEMENZA DEFFENBAUGH,	*Masontown.*	Women's College
STELLA MAE DOSTER,	*Danville.*	Women's College
MARGARET POLLOCK DOUGAL,	*Milton.*	Milton

NAME.	RESIDENCE.	ROOM.
Blanche Barber Galyon,	*Knoxville, Tenn.*	Women's College
Emma Grier Gearhart,	*Danville.*	Women's College
Fannie May Getz,	*Lewisburg.*	Lewisburg
Nina Krauser Hackenberg,	*Milton.*	Milton
Elizabeth Haines,	*Winfield.*	Winfield
Edith Halfpenny,	*Milton.*	Milton
Marie Humphrey,	*Brookville.*	Women's College
Margaret Irene Humphrey,	*Curwensville.*	Women's College
Harriet Yarger Keiser,	*Lewisburg.*	Lewisburg
Jessie Theresa Kremer,	*Lewisburg.*	North Third Street
Louise Amelia Langdon,	*Scranton.*	Women's College
Ela May Langdon,	*Scranton.*	Women's College
Mary Elizabeth Lee,	*Orwigsburg.*	Women's College
Fannie Drue Logan,	*Sunbury.*	Sunbury
Estella Lowenstein,	*Danville.*	Danville
Sarah Eleanora Masser,	*Sunbury.*	Sunbury
Letitia Thompson Maxwell,	*Pottstown.*	Women's College
Ethyl Douglass Overholt,	*Scottdale.*	Women's College

NAME.	RESIDENCE.	ROOM.
Helen Abigail Overholt,	*Scottdale.*	Women's College
Clara J. Pawling,	*West Milton.*	West Milton
Helen Rylands Roberts,	*Norristown.*	Women's College
Blanche Sarah Sechler,	*Riverside.*	Women's College
Eva C. Seebold,	*Sunbury.*	Sunbury
Rosa Ellen Stolz,	*Philadelphia.*	Women's College
Elizabeth Vance,	*Winfield.*	Winfield
Katherine Gearhart Vastine,	*Danville.*	Women's College
Fannie Alice Wagner,	*Montandon.*	Montandon
Marion Gilbert Walker,	*Norristown.*	Women's College
Sarah Emma Zeitler,	*Punxsutawney.*	Women's College

SUMMARY.

Graduate Students	10
Senior Class	10
Fourth Year Class	17
Third Year Class	9
Second Year Class	8
First Year Class	7
Pursuing Select Studies	38
Total	99

COURSES OF STUDY.

The Bucknell Institute offers to young women three courses of study, each extending over five years. Students are admitted to advanced standing, if upon examination they are found to have satisfactory knowledge of the branches which the class they propose to enter has already completed.

Credentials from Graded Schools are accepted in the studies of the First and Second Years.

Credentials are accepted for the Third and Fourth Years from schools whose curricula are equivalent to that of Bucknell Institute; also from accredited private teachers, in studies which are *continued* after entrance.

I. THE LITERARY COURSE.

The Literary Course embraces, in MATHEMATICS, Arithmetic, common and advanced, Algebra and Geometry, plane and solid, and Higher Algebra with Trigonometry and Analytical Geometry as electives; in LATIN, two years *required,* and a third year elective with German or French; in GERMAN and FRENCH, one year each or two of either; and in ITALIAN and SPANISH, an optional course; in SCIENCE, Physical Geography, Botany, Astronomy, Physics, Physiology, Chemistry, and Geology. In these branches the students have the advantages afforded by the College Observatory, Laboratory, and Museum. The course also includes Rhetoric, Composition, Civil Government, Psychology, Ethics, and History of Art.

Special attention is given to History and Literature, to the former of which six and to the latter of which three terms are devoted.

Graduates of the Institute in the Literary Course, upon the completion of eighteen courses of additional work in the College of Liberal Arts, may receive the degree of Bachelor of Letters.

II. THE CLASSICAL COURSE.

The Classical Course embraces in MATHEMATICS, Arithmetic, Algebra, Geometry, plane and solid, University Algebra, Trigonometry and Analytical Geometry; in LATIN, Grammar and Composi-

tion, Cæsar, Vergil, Cicero's Orations, Ovid, Cicero *de Senectute et de Amicitia,* Livy, and Velleius, in all, five years; in GREEK Grammar and Composition, Xenophon's Anabasis, Homer's Iliad, Lysias' Orations, Plato's Apology, Homer's Odyssey, and the Greek Testament, in all three years; in HISTORY, General History, and Greek and Roman History.

Students who complete the Classical Course are admitted to the Sophomore Class in College as candidates for the first degree in Arts.

III. THE LATIN SCIENTIFIC COURSE.

The Latin Scientific Course corresponds to the Classical course, except that scientific subjects are substituted for the first two years of Greek, and German for the third year of Greek.

Students who complete the Latin Scientific course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

Students in the fifth year Classical or Latin Scientific course recite to the professors in the College.

SELECT STUDIES.

Students who do not wish to pursue a course of study may elect such subjects in connection with the recitations of the regular classes as they may be qualified to pursue.

AGE REQUIREMENT FOR ADMISSION.

The required age for admission to the first-year class or to pursue select studies is twelve years, and a proportionate increase of age for admission to advanced classes.

CURRICULA

Arabic numerals indicate the number of recitations a week in each subject.

I. THE LITERARY COURSE.

FIRST YEAR.

I. Term—	Algebra, 5, Latin, 5, History, 5,	English, 4, Bible, 1.
II. Term—	Algebra, 5, Latin, 5, Drawing, 5,	English, 4, Bible, 1.
III. Term—	Geometry, 5, Latin, 5, History, 5,	English, 4, Bible, 1.

SECOND YEAR.

I. Term—	Higher Arithmetic, 5, Cæsar, Introduction, 5, Greek History, 5,	Rhetoric, 4, Bible, 1.
II. Term—	{ Book-keeping, { Commercial Arithmetic, 5, Cæsar, 5,	Roman History, 5, Literature, 4, Bible, 1.
III. Term—	Physical Geography, 5, Cæsar, 5, U. S. History, Advanced, 5,	Literature, 4, Bible, 1.

THIRD YEAR.

I. TERM—Algebra, 5,
Cæsar, 5,
German, 5, *or*
History of England, 5,
Elocution, 4,
Bible, 1.

II. TERM—Algebra, 5,
Cicero, 5,
German, 5, *or*
Chemistry, 5, *or*
Civics, 5,
Literature, 4,
Bible, 1.

III. TERM—Algebra, 5,
Cicero, 5,
German, 5, *or*
Botany, 5,
Literature, 4,
Bible, 1.

FOURTH YEAR.

I. TERM—Geometry, 5,
Vergil, 5,
Cicero, 5,
German, 5, *or*
Physiology, 5,

II. TERM—Geometry, 5,
Vergil, 5,
{ Cicero, } { 5,
{ Ovid, }
German, 5, *or*
Astronomy, 5,

III. TERM—Physics, 5,
Vergil, 5,
German, 5, *or*
Geology, 5, *or*
Solid Geometry, 5,

SENIOR YEAR.

I. TERM—Psychology,
English Literature,
French, *or*
German, *or*
{ Solid Geometry,
{ Higher Algebra,
Bible,
Composition,
Elocution.

II. Term—English Literature, Bible,
History of Art, *or* Composition,
French, *or* Elocution,
German, *or* Physical Culture.
Trigonometry,

III. Term—Ethics, Bible,
American Literature, Composition,
French, *or* Elocution.
German, *or*
Analytical Geometry,

II. THE CLASSICAL COURSE.

FIRST YEAR.

I. Term—Algebra, 5, English, 4.
Latin, 5, Bible, 1.
History, 5,

II. Term—Algebra, 5, English, 4,
Latin, 5, Bible, 1.
Drawing, 5,

III. Term—Geometry, 5, English, 4,
Latin, 5, Bible, 1.
History, 5,

SECOND YEAR.

I. Term—Higher Arithmetic, 5, Rhetoric, 4,
Cæsar, Introduction, 5, Bible, 1.
Greek History, 5,

II. Term—
Book-keeping, Roman History, 5.
Commercial Arithmetic, 5, Literature, 4,
Cæsar, 5, Bible, 1.

III. Term—Physical Geography, 5. Literature, 4,
Cæsar, 5, Bible, 1.
U. S. History, Advanced, 5,

THIRD YEAR.

I. Term—Geometry, 5, Cæsar, 5, Greek, 5, | Elocution, 4, Bible, 1.

II. Term—Algebra, 5, Cicero, 5, Greek, 5, | Literature, 4, Bible, 1.

III. Term—Algebra, 5, Cicero, 5, Greek, Anabasis, 5, | Literature, 4, Bible, 1.

FOURTH YEAR.

I. Term—Geometry, 5, Vergil, 5, | Cicero, 5, Greek, Anabasis, 5.

II. Term—Geometry, 5, Vergil, 5, | { Cicero, / Ovid, } 5, Iliad, 5.

III. Term—Physics, 5, Vergil, 5, | Iliad, 5, Anabasis, 5.

SENIOR YEAR.

I. Term— { Geometry, / Algebra, 5, } Cicero de Senectute, 5, { Odyssey, / Greek Prose Composition, 5, } | Rhetoric, 1, Elocution, 1.

II. Term— { Trigonometry, / Algebra, 5, } Livy, 5, { Lysias, / Greek Testament, 5, } | Rhetoric, 1, Elocution, 1, Physical Culture.

III. TERM—

Analytical Geometry, 5, Rhetoric, 1,
Velleius and Pliny, 5, Elocution, 1.
{ Plato,
{ Greek Testament, 5,

III. THE LATIN SCIENTIFIC COURSE.

FIRST YEAR.

I. TERM—Algebra, 5, English, 4,
Latin, 5, Bible, 1.
History, 5,

II. TERM—Algebra, 5, English, 4,
Latin, 5, Bible, 1.
Drawing, 5.

III. TERM—Geometry, 5, English, 4,
Latin, 5, Bible, 1.
History, 5,

SECOND YEAR.

I. TERM—Higher Arithmetic, 5, Rhetoric, 4,
Cæsar, Introduction, 5, Bible, 1.
Greek History, 5,

II. TERM—

{ Book-keeping, Roman History, 5,
{ Commercial Arithmetic, 5, Literature, 4,
Cæsar, 5, Bible, 1.

III. TERM—Physical Geography, 5, Literature, 4,
Cæsar, 5, Bible, 1.
U. S. History, Advanced, 5,

THIRD YEAR.

I. TERM—Algebra, 5, Elocution, 4,
Cæsar, 5, Bible, 1.
German, 5, *or*
History of England, 5,

II. Term—Algebra, 5,
Cicero, 5,
German, 5, *or*
Chemistry, 5, *or*
Civics, 5,

Literature, 4,
Bible, 1.

III. Term—Algebra, 5,
Cicero, 5,
German, 5, *or*
Botany, 5,

Literature, 4,
Bible, 1.

FOURTH YEAR.

I. Term—Geometry, 5,
Vergil, 5,
Cicero, 5,

German, 5, *or*
Physiology, 5.

II. Term—Geometry, 5,
Vergil, 5,
{ Cicero, / Ovid, } 5,

German, 5, *or*
Astronomy, 5.

III. Term—Physics, 5,
Vergil, 5,

German, 5, *or*
Geology, 5,
Solid Geometry, 5.

SENIOR YEAR.

I. Term—
{ Algebra, / Geometry, 5,
Cicero de Senectute, 5,
German, 5,

Rhetoric, 1,
Elocution, 1.

II. Term—
{ Trigonometry, / Algebra, 5,
Livy, 5,
German, 5,

Rhetoric, 1,
Elocution, 1.

III. Term—Analytical Geometry, 5,
Velleius and Pliny, 5,
French, 5,

Rhetoric, 1,
Elocution, 1.

METHODS OF INSTRUCTION.

I. PSYCHOLOGY AND ETHICS.

Psychology is taught by text-book and informal lectures. The relation of Psychology to education is made a special feature of the course.

The aim in the Course in Ethics is to make the instruction as practical as possible. Theses on problems in Ethics are required of each student taking the subject, in addition to recitations from text-books.

II. LITERATURE AND ART.

LITERATURE is taught by topical outlines, the elaboration of which depends upon a sympathetic study of the masterpieces in connection with the lives and times of the writers. The subject is so presented that a vital experience results rather than an empty form of knowledge. The object of the course is to cultivate and ennoble the emotions, to stimulate the imagination, and to reinforce the will with strong and exalted motives.

THE HISTORY OF ART is offered in the Senior Year, Literary Course. The aim of the course is to give a general knowledge of the development of art and lead to an acquaintance with individual artists and their work. Some attention is given to the theories concerning the origin of the art-impulse itself, and the law of the mental evolution which has governed the history of art.

III. HISTORY.

History. Six terms are devoted to this study. The course embraces General History, the History of the United States, of England, of Greece, and of Rome. Efforts are made to convince the learner that History is not mere facts in chronological order, but a record of the development of civilization.

Civil Government. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments; the political history of the people; the interpretation and construction of the Constitution, are discussed.

IV. THE ENGLISH LANGUAGE.

English Grammar. The aim is to train the pupils to speak and write the English language with accuracy and force.

Rhetoric is taught as a practical aid to English Composition Daily exercises in composition are required.

English Composition is required throughout the course Classes in Composition meet weekly for general criticism and the assignment of work. One essay is required from each student monthly, and an exercise in rapid and concise writing is required weekly.

V. THE LATIN LANGUAGE.

Paradigms of Declension and Conjugation with the Principles of Syntax, are introduced gradually, after many illustrations. English sentences are translated into Latin, readiness in Latin Composition and a correct style being thus acquired.

The following courses are offered: 1. Latin Grammar and Lessons; 2. Eutropius; 3. Cæsar, Gallic War; 4. Vergil, Æneid; 5. Cicero, Orations; 6. Ovid; 7. Cicero, *De Senectute,* and Livy; 8. Livy, Books XXI and XXII; 9. Velleius and Pliny.

VI. THE GREEK LANGUAGE.

The first half of the Third Year is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's Anabasis. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns, and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh her knowledge of Attic Greek, and may not find her transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

The following courses in Greek are offered to students in the Classical Course: 1. Greek Lessons; 2. Xenophon's Anabasis; 3. Homer's Iliad; 4. Lysias' Orations; 5. Homer's Odyssey; 6. Plato's Apology; 7. Greek New Testament.

VII. MODERN LANGUAGE.

1. **French, Italian, and Spanish.** The modern languages are taught by comparing them with the mother tongue of the pupil, if there be any relation between them. If there is none, they are compared with the Latin and Greek languages. In French, rules are taught by which the words that are not exactly the same in the two languages are easily made into French.

French Syntax is taught by examples and illustrations from readings. The grammar is taught from the language, and not the language from the grammar. Dictation exercises are given from Whitney's Practical French.

As far as practical only French is spoken in the class-room. Extracts are read from the best French literature. Conversations are held in French on the readings, stories are related, and compositions prepared in French by the pupil.

The aim is to teach the modern languages so that they can be spoken correctly.

The same method is used in teaching Spanish and Italian.

2. **German.** In the study of German the aim is to get a knowledge of the language in an all-round way. This is accomplished not alone through the study of grammar and the translation of German into English, but by daily practice in conversation, the committing to memory of poems and idioms, and through an acquaintance with biography and the different phases of German life. As little English as practicable is used in the class-room. Throughout the course there is constant sight reading, translation at hearing, and translation from English into German.

The reading of the second year includes the best German authors studied in connection with Keller's History of German Literature.

VIII. MATHEMATICS.

Arithmetic. Two objects are considered in teaching the subject; first, to give the student a practical knowledge of all ordinary business problems and calculations; second, to develop her ability to think logically and rapidly. The memorizing of rules and mechanical processes is not required, but independent thought, logical analysis and neatness, clearness and accuracy in all written work are demanded. A drill in Mental Arithmetic is combined with the required work of the text-book.

Elements of Algebra. Three terms are given to this subject. There is thorough drill in the fundamental operations, and the idea that these are simply the applications of arithmetical processes to symbols of general value is kept constantly in mind. The course includes Quadratic Equations, Theory of Exponents, Variations, and series.

Geometry. The course includes Plane and Solid Geometry. Besides the demonstrations of Theorems given in the text-book, original demonstrations and the solution of problems are required.

Higher Algebra. The topics discussed are: Progressions, Theory of Limits, Differentiation, Development of Functions into Series, Convergency and Summation of Series, Logarithms, Compound Interest and Annuities, Permutations and Combinations, Probabilty, Continued Fractions, and the Theory of Equations.

Trigonometry. The course includes Plane and Spherical Trigonometry. Time is given to the numerical illustrations of principles for the purpose of making sure that the meaning and use of formulæ, demonstrated and learned are thoroughly understood.

Analytical Geometry. The student is taught the elementary properties of the right line and the conic sections. The course is intended to give a clear conception of the methods of Cartesian Analysis, rather than an extensive knowledge of its results.

IX. SCIENCE.

Physics. The student is thoroughly grounded in the elements of mechanics and physics. The historical beginnings of each subject, and subsequent developments, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the higher mathematics. The apparatus of the College is available for class use.

Astronomy. Descriptive Astronomy discusses the earth's relation to the solar system; the masses, motions, and orbits of each member; the causes and consequences of the motions of the earth; general boundaries of the constellation of the Zodiac and Northern Heavens; the accepted theories of comets, meteors, and nebulæ. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

Physical Geography lays a broad foundation for subsequent work in all sciences. Special attention is given to the physical features of the United States. Drawings, photographs, colored and relief maps, and specimens from the Museum and field work, aid to make the subject clear.

Geology. The student is required to master the elements of lithographical, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work are considered.

Botany is taught by text-book and field work. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. Lectures explaining special forms of vegetable growth, and the flora of this country, complete the work.

Physiology. Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, and the effects of stimulants and narcotics. Suggestions are also made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. The subject is illustrated by the use of a manikin, charts, and preparations.

Descriptive Chemistry is taught by text-books, lectures, and experiments. The object of the course is to give the student a general knowledge of the common elements, their sources, uses, compounds, and behavior towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reaction taking place.

PHYSICAL CULTURE.

The health of the students is made a prime object of attention, and sanitary requirements are carefully observed. The institute Gymnasium is furnished with Indian clubs, dumb bells, wands, rings, hoops, guns, wall pulleys, parallel bars, etc., and classes in

Physical Culture are organized for the benefit of all students. The exercises practiced are such as tend to develop grace and strength. The Institute Campus of six acres furnishes facilities for exercises. Lawn Tennis and other outdoor games are encouraged, and exercise in the open air is required.

ÆSTHETIC CULTURE

It is intended that the pupils of the Institute shall have the influence unconsciously received from painting, music, and refined surroundings, as well as direct instruction in Literature, Music, and Art. Special instruction in Music and Art is given in the schools devoted to those subjects.

SOCIAL CULTURE.

Pupils are trained to observe the usages of good society. Meetings of various organizations for improvement in Literature, Music, and Art, and receptions in charge of the pupils add variety to student life. No effort is spared to give the pupils the advantages of a cultured home. The purpose is to develop the social life of the Institution within itself. Students are not permitted, during term-time, to visit in neighboring towns. The number of social functions during the term is limited, and the consent of the Dean must be obtained for each function at least one month before it is to occur.

RELIGIOUS TRAINING.

The Institute is distinctly Christian in its influence. Morning and evening Chapel in the Hall of the Institute building is attended by all students in the Institute courses, special students, and women pursuing studies in the School of Music. College women living in the Intsitute attend evening Chapel.

Attendance upon Sabbath-school and church services in town is required. All students have weekly recitations in Inductive Bible Study. The students have organized several classes for Scripture study.

The Young Women's Christian Association, a voluntary society open to the officers and students of the Institute, meets weekly. The regular Tuesday evening prayer-meeting, missionary and temperance work, special Bible Classes and College Settlement work are in charge of this Association.

SPECIAL BRANCHES.

1. Italian and Spanish may be taken up as optional studies, under the instruction of M. Elysée Aviragnet.

All optional studies must be pursued in connection with the regular classes.

2. Bible instruction is given once a week throughout the entire course.

3. Essays are required of all students each month, and themes each week.

4. Two declamations are required of each student during each term.

5. Exercises in either Elocution or Reading are required once a week of all classes.

PUBLIC EXERCISES.

THE EXERCISES OF THE GRADUATING CLASS.

The Commencement Exercises of the Institute are held in the College Commencement Hall on Tuesday afternoon of Commencement week.

THE EXERCISES OF THE FOURTH YEAR CLASS.

The exercises of the Fourth Year Class, a combined musical and literary entertainment, are held in the Chapel of the Institute on the last Saturday evening in the month of April.

THE CONTEST IN ELOCUTION.

A contest in Elocution for the prize in that subject, open to all the members of the Institute takes place in Bucknell Hall on the second Saturday evening in the month of May.

ALUMNÆ SOCIETIES.

The Alumnæ Association holds its anniversary on Monday afternoon of Commencement week.

The Lewisburg Alumnæ Club meets at the Institute on the second Tuesday of each month during term-time.

The Philadelphia Alumnæ Club is composed of graduates living in and near that city.

STUDENTS' LOAN SOCIETY OF BUCKNELL INSTITUTE.

In June, 1887, there was organized in connection with Bucknell Institute an association for the purpose of assisting young women of limited means to obtain an education. A fund was established by gifts from the Alumnæ and friends of the Institute. The money is loaned to beneficiaries, who obligate themselves to return it, *without interest,* as soon after their graduation as they may be able.

Before the organization of this Society, many promising students at Bucknell Institute were unable to finish the course of study because there was no provision for financial assistance.

Since 1887, but for the help of this Association, some of the best of our graduates would have been deprived of the training which has fitted them for the positions they now fill as teachers, authors, missionaries, and pastors' helpers.

During the first decade, twenty-four young ladies received aid. More than one-half of these have returned the loan in full.

The Society meets in the parlors of the Institute on the first Wednesday afternoon after the opening of each term, at half-past two o'clock.

The annual meeting for the election of officers is held at the Institute on the first Wednesday after the opening of the winter term.

The payment of one hundred dollars constitutes the donor a Life Member of the Association; five dollars annually, an Active Member.

Contributions should be sent to the Treasurer, Mrs. T. H. Purdy, Sunbury, Pa. Any information will be given by the President, Mrs. Katharine B. Larison, Lewisburg, Penna. or Mrs. John T. Judd, Corresponding Secretary, Lewisburg, Pa.

DEPARTMENT OF ELOCUTION.

Miss Edith Schillinger.

This department is open to all members of the Institute. Its aim is the correct and effective utterance of thought. Special attention is given to Voice Culture, Articulation, including Pronunciation and Expression. Weekly Rhetoricals afford opportunity for platform work. Bible Reading and the study of Shakspere have places in the course. Special courses are offered to students who wish to take private lessons in elocution. Particular attention is given to curing persons of stammering and other defects in speech.

SPECIAL STUDENTS IN ELOCUTION.

NAME.	RESIDENCE.	ROOM.
Bessie Adams,	*Porter.*	Market Street
Dana Bower,	*Elkhart, Ind.*	Women's College
Sadie Emerson Burgess,	*Sadieville, Ky.*	Women's College
Ruth Young Chapin,	*Milton.*	Milton
Fanny Derr,	*Lewisburg.*	Market Street
Herbert Gray Foster,	*Watsontown.*	Watsontown
Villa Hauck,	*Lewisburg.*	South Fourth Street
Katherine Holzer Sanner,	*Frackville.*	Women's College
Katherine Snyder,	*Lewisburg.*	Market Street
Anna Stage,	*Clearfield.*	Women's College
Elizabeth Vance,	*Winfield.*	Winfield

Number of pupils, 11.

THE ART DEPARTMENT.

MISS WILHELMINA DARLINGTON.

The facilities for the study of Art have been greatly increased by the accommodations allotted to this Department, in a special studio, which provides such adjustments for admission of light, and unencumbered wall surface as to render it adapted for the execution and display of art production.

For such students as desire opportunity for work preparatory to professional study, and to those who wish to fit themselves to give systematic instruction in drawing, the following course is provided:

First Year. Drawing in Pencil, Charcoal and Crayon from solid geometrical forms, and portions of the human figure, with the necessary elements of perspective, the Laws of Proportion, and the Relations of Light and Shade.

Second Year. Drawings from the Antique in Coal, Crayon, Sepia, or Oil Monochrome; Modeling in Clay or Wax. Study in Color from Draperies and Still Life.

Third Year. Composition, Color in Landscape, Pen and Ink Drawing, and Painting in Color from Nature and from Life.

On successful completion of this entire course, a certificate of proficiency will be awarded.

Students who do not desire the certificate course, and whose interest is in Decorative Work, will receive the requisite instruction in the latest methods—China Painting, Tapestry, Dyeing, and applied Design in other mediums and materials.

Charges for instruction in Art are as follows:

	Per Annum.
Drawing	$24.00
Crayoning	33.00
Painting in Oil, Water Colors, Pastel, or on China,	60.00
	Per Lesson.
Special individual instruction in Painting	$1.00

Freehand Drawing is a part of the required work of the school without extra charge.

ART EXHIBIT.

On Saturday, Monday, and Tuesday, of Commencement Week, a display of art products by the pupils of the School of Art is made in the Studio. At this time a committee of art students receives and entertains all those who visit the Studio.

STUDENTS IN ART.

NAME.	RESIDENCE.	ROOM.
Eleanor Elizabeth Corrin,	*Franklin,*	Women's College
Marguerite Duncan,	*Lewisburg,*	South Second Street
Nancy Hall Finley,	*Georgetown,* Ky.	Women's College
Ellen Wolfe Focht,	*Lewisburg.*	South Second Street
Walter William Harris,	*Lewisburg.*	University Avenue
Emily Heaton,	*Milton.*	Milton
Elizabeth Mann Heinen,	*Milton.*	Milton
Mary Heiser,	*Lewisburg.*	Market Street
Irene Humphrey,	*Curwensville.*	Women's College
Sarah Judd,	*Lewisburg.*	University Avenue
Letitia Thompson Maxwell,	*Pottstown.*	Women's College
Homer D. Pease,	*Scranton.*	West College

NAME.	RESIDENCE.	ROOM.
Helen Lena Ritter,	*Milton.*	Milton
Miriam Catherine Shimer,	*Milton.*	Milton
Elizabeth Vance,	*Winfield.*	Winfield
Katharine G. Vastine,	*Danville.*	Women's College
Myrtle H. Walkinshaw,	*Greensburg.*	Women's College
Dorothy Walls,	*Lewisburg.*	South Third Street
Jeanette Wolfe,	*Lewisburg.*	St. George Street

Number of pupils, 19.

GENERAL INFORMATION.

ADVANTAGES.

The Bucknell Institute offers to young women superior educational advantages. Its location in a University town assures an atmosphere of study and the benefit of numerous literary exercises, lectures, and addresses. The students in the Institute have the use of the Library and apparatus of the Institute, and also of the College Astronomical Observatory, Chemical Laboratory, Museum, and Library, and the various apparatus of the University. An isolated school could not provide for itself these advantages at a cost of less than a quarter of a million dollars.

During the year 1905 about forty thousand dollars was expended in enlarging and improving the women's buildings.

ADMINISTRATIVE AND OTHER REGULATIONS.

1. The general control of the Women's College, Institute, and School of Music is vested in the President of the University.

2. The government of the Institute, subject to such control, rests with the Dean.

3. Young women whether attending the College, Institute, or School of Music are subject to the rules and regulations governing young women attending the Women's College.

RULES.

The laws governing the Women's College, are enacted by the Board of Trustees and a copy is given to each student when she enters the Institution.

Any officer of the Institute becoming cognizant of violation of regulations by any pupil shall report the same to the Dean, who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall be reported to the President of the University; and if, in the judgment of the President of the University and the Dean the offence be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

Violations of the regulations of the Women's College or infraction of the laws of morality are punished by private reprimand, deprivation of privileges, or private withdrawal from the Institution.

PRIZES.

I. BUCKNELL PRIZES.

The followng prizes were founded by William Bucknell, of Philadelphia:

1. A First Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the best essay.

2. A Second Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the second best essay.

For the year 1905 the First Prize of twenty-four dollars was awarded to Jeannette Keen Wolfe, and the Second Prize of sixteen dollars to Elizabeth Baker.

3. A Third Senior Prize to be awarded to the member of the graduating class who shall attain the highest grade in the studies of the Senior Year. This excludes all grades of studies not in the Senior Year, all Senior studies taken before the Senior Year, and all studies not taken in the Institute.

For the year 1905 this prize of twenty-five dollars was awarded to Mary Gudekunst Brown, and Margaret Stoughton.

4. A First Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the best Fourth Year essay.

5. A Second Fourth Year Prize, to be awarded to the member of the Fourth Year Class, who, being excellent in scholarship during the year, shall prepare the second best Fourth Year essay.

For the year 1905 these prizes were awarded as follows: Amelia M. Wensel received the First Prize of twenty dollars; Louise E. Savidge, the Second Prize of fifteen dollars.

The fund consists of $2,000, the income from which is to be devoted to these prizes annually in a manner more particularly defined in the donor's communication to the Trustees.

Themes for the Bucknell Essay Prizes will be drawn from the following works:

For 1906—Shakspere's Julius Cæsar; Milton's L'Allegro, Il Penseroso, Comus, Lycidas; Scott's Marmion; Addison's Sir Roger de Coverly Papers.

For 1907—Shakspere's Macbeth; Tennyson's Idylls of the King; Carlyle's Essay on Burns; Scott's Lady of the Lake.

II. THE ELOCUTION PRIZE.

A prize in Elocution is offered to the student who shall give the best recitation at the Annual Contest.

For 1905 the prize was awarded to Ruth Young Chapin.

EXPENSES.

I. Boarding Students. The regular charge for Boarding Students is $245.00 per annum; the other expenses, spending money, books, and clothing, will vary with the individual student.

An additional charge will be made when one student occupies a double room alone in the Main Buliding. Extra charge will also be made for front corner rooms in the West Wing.

Students are charged extra for the washing of dresses, and for the washing of more than 12 pieces per week.

For the rooms in the Bucknell Cottage and in the New Cottage there is an extra charge, depending on the location.

Students will be charged for damage done to furniture or to the room they occupy.

II. Day Students. The charges for Day Students amount to $65.00 per annum.

III. Extra Studies. The charges for Elocution, Drawing and Painting, and Music will be found under those titles.

Bills are payable *strictly in advance,* on the 15th of September, January, and April.

Checks and drafts should be drawn in favor of the Registrar of the University.

No bill will be made out for a shorter period than one term; and no deductions will be made, except in the charge of board, in case of a prolonged absence on account of sickness.

The expenses for Music, Printing, and other charges ordinarily incurred at Examination and on anniversary occasions, are paid by the class or classes which incur the expenses.

The fee for Graduation and Diploma is $5.

Free scholarships, covering tuition, are awarded to children of Ministers of the Gospel *in actual service.*

For Information respecting the Institute, address the Dean of the Department for Women, Thomas A. Edwards, A. M., or the President of the University.

BUCKNELL SCHOOL OF MUSIC.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,
DIRECTOR.

JULIET AIKIN,
PIANO, HARMONY, HISTORY OF MUSIC.

EDITH J. METCALF,
PIANO.

MAUDE CHAPMAN BLACKMER,
VOCAL.

RUTH ANGELINE BOTTORF,
PIANO, PIPE ORGAN, VIRGIL CLAVIER.

SADIE L. WOLVERTON,
INSTRUMENTAL MUSIC.

GRADUATES, 1905.

NAME.	COURSE.	RESIDENCE.
Cottie Gudila Albright,	*Vocal.*	Lewisburg
Susie Rebecca Biehl,	*Piano and Harmony.*	Vicksburg
Mary Isabel Bower,	*Vocal and Harmony.*	Lewisburg
Rachel Alice Brookbank,	*Piano, Harmony, and Vocal.*	Driftwood
Julia Parthenia Brown,	*Vocal.*	Rochester
Edna Luella Downing,	*Piano, Mandolin, and Harmony.*	Muncy
Mary Jane Fritz,	*Piano and Harmony.*	Trevorton
Anna Ethel Johnson,	*Vocal and Harmony.*	Gordon
Mabel Grace Maurer,	*Piano and Harmony.*	New Berlin
Fannie Alice Wagner,	*Piano and Harmony.*	Montandon
Sadie L. Wolverton,	*Piano, Harmony, and Pipe Organ.*	Shamokin

NAMES OF STUDENTS.

PIANO.

NAME.	RESIDENCE.
Louise Albright	Muncy
Helen K. Allen	Lewisburg
Alice Ambler Armstrong	Merchantville, N. J.
Elizabeth Baker	Lewisburg
Elizabeth Irene Barber	Bridgeport
George Bender	Lewisburg
Marinas Kate Berry,	Goshen, Ind.
Harriet Kremer Bower	Lewisburg
Bertha Brown	Lewisburg
Edelberto Caceres	Merida, Mex.
Eleanor Elizabeth Corrin	Franklin
Bessie Clemenza Deffenbaugh	Masontown
Stella Mae Doster	Danville
Edgar L. Dreher	Paxinos
Josephine Espejo	Merida, Mexico
Mary Fefferman	Northumberland
Blanche Barber Galyon	Knoxville, Tenn.
Emma Grier Gearhart	Danville
Fannie May Getz	Lewisburg
Eva Irene Ginter	Lewisburg
Margaret Christine Gretzinger	Lewisburg
Nina Krauser Hackenberg	Milton
Edith Halfpenny	Milton
Eudora Regina Hamler	Lewisburg
Charlotte May Hawk	Tower City
Marie Humphrey	Brookville
Margaret Irene Humphrey	Curwensville
Mae Elizabeth Jones	Franklin
Harriet Yorger Keiser	Lewisburg
Mary Kreisher	Lewisburg
Rachel May Kunkle	Lewisburg
Ella May Langdon	Scranton
Louise Amelia Langdon	Scranton
Mary Elizabeth Lee	Orwigsburg
Fanny Drue Logan	Sunbury
Estella Lowenstein	Danville

NAME.	RESIDENCE.
Sara Eleanor Masser	Sunbury
Elizabeth Meek	Allenwood
Emma Margaret Myers	Williamsport
Ethyl Douglas Overholt	Hagerstown, Md.
Margaret Weddell Pangburn	Elizabeth
Clara J. Pawling	West Milton
Helen Rylands Roberts	Norristown
Blanche Sarah Sechler	Danville
Eva C. Seebold	Sunbury
Laura Maude Shultz	Sunbury
Anna Stage	Clearfield
Mary Georgiana Stanton	Chinchilla
Sara Steens	Mifflinburg
Ruth Stephens	Lewisburg
Margaret Stevenson	McVeytown
Paul Garfield Stolz	Philadelphia
Rosa Ellen Stolz	Philadelphia
Robert William Thompson	Irwin
Anna M. Tule	Montandon
Elizabeth Vance	Winfield
Reba R. Vincent	Watsontown
Marion Gilbert Walker	Norristown
Myrtle Hargrave Walkinshaw	Greensburg
Beatrice P. Weill	Lancaster
Violetta Wolfe	Rebersburg
Frank Landis Yost	Williamsport
Sara Emma Zeitler	Punxsutawney

VOICE.

Bessie Adams	Porter
Homer Hastings Adams	Grange
Florence Louise Bacon	Canton
Mabel Rosetta Berry	Milton
Sarah Cyrena Furman	Wellsboro
Emma Grier Gearhart	Danville
Frank Kemp Gibson	Minersville
Myra Alverna High	White Deer
Abram Hughes	White Deer
Marie Humphrey	Brookville
Margaret Irene Humphrey	Curwensville
Edith E. Lane	Ulysses
Ella May Langdon	Scranton

NAME.	RESIDENCE.
Louise Ameia Langdon	Scranton
Wallace McLaughlin	Philadelphia
Nellie M. Osmun	Sunbury
Margaret Adelia Rowlands	Homestead
Ida Mills Sames	Norristown
Katherine Holzer Sanner	Frackville
Edna Alice Seaman	Allentown
Frank Laton Stewart	Apollo
Margaret Maria Stoughton	Lewisburg
John M. Thomas	Falls Creek
Helen Flukerson Tiffany	Pleasant Mount
Katherine Gearhart Vastine	Danville
Fannie Alice Wagner	Montandon
Clara Wheeler	Sunbury
Jesse Theresa Young	Lewisburg
Sara Emma Zeitler	Punxsutawney

PIPE ORGAN.

Elizabeth Irene Barber	Bridgeport
Ella May Langdon	Scranton
Mary Elizabeth Lee	Orwigsburg
Fanny Drue Logan	Sunbury
Catherine Fraser McLaggan	Lewisburg
Ruth Stephens	Lewisburg
Marion Gilbert Walker	Norristown
Sara Emma Zeitler	Punxsutawney

HARMONY.

Cottie Gudila Albright	Lewisburg
Louise Albright	Muncy
Elizabeth Irene Barber	Bridgeport
Bessie Clemenza Deffenbaugh	Masontown
Stella Mae Doster	Danville
Emma Grier Gearhart	Danville
Coit Roscoe Hoechst	East Berlin
Margaret Irene Humphrey	Curwensville
Marie Humphrey	Brookville
Harriet Yorger Keiser	Lewisburg
Mary Elizabeth Lee	Orwigsburg
Estella Lowenstein	Danville

NAME.	RESIDENCE.
Helen Rylands Roberts	Norristown
Leo Lawrence Rockwell	Monroeton
Blanche Sarah Sechler	Danville
Mary Georgiana Stanton	Chinchilla
Ruth Stephens	Lewisburg
Paul Garfield Stolz	Philadelphia
Rosa Ellen Stolz	Philadelphia
Marion Gibbert Walker	Norristown
Violetta Wolfe	Rebersburg
Sara Emma Zeitler	Punxsutawney

HISTORY OF MUSIC.

Cottie Gudila Albright	Lewisburg
Marinas Kate Berry	Goshen, Ind.
Elizabeth Irene Barber	Bridgeport
Bessie Clemenza Deffenbaugh	Masontown
Stella Mae Doster	Danville
Emma Grier Gearhart	Danville
Coit Roscoe Hoecht	East Berlin
Margaret Irene Humphrey	Curwensville
Marie Humphrey	Brookville
Harriet Yorger Keiser	Lewisburg
Mary Elizabeth Lee	Orwigsburg
Estella Lowenstein	Danville
Helen Rylands Roberts	Norristown
Leo Lawrence Rocwell	Monroeton
Blanche Sarah Sechler	Danville
Mary Georgiana Stanton	Chinchilla
Ruth Stephens	Lewisburg
Paul Garfield Stolz	Philadelphia
Rosa Ellen Stolz	Philadelphia
Marion Gilbert Walker	Norristown
Violetta Wolfe	Rebersburg
Sara Emma Zeitler	Punxsutawney

MANDOLIN, GUITAR, BANJO.

Cottie Guila Albright	Lewisburg
Marines Kate Berry	Goshen, Ind.
Anne Frances Chaffee	Towanda
Myra Magargee Chaffee	Towanda

NAME.	RESIDENCE.
Harriet Kremer Bower	Lewisburg
Eleanor Elizabeth Corrin	Franklin
Anna Roberta Carey	Glen Loch
Nellie Dunkle	Lewisburg
Margaret Christine Gretzinger	Lewisburg
Eunice Virginia Hall	Chinchilla
Margaret Irene Humphrey	Curwensville
Marie Humphrey	Brookville
Ruth Cushman Jones	Mahanoy City
Horace Brown King	East Smethport
Louise Amelia Langdon	Scranton
Mary Elizabeth Lee	Orwigsburg
Clarence Edward Long	Shippensburg
Lawrence Oscar Manley	Canton
Helena Mae Olds	Lewisburg
Iola Beatrice Quandt	Altoona
Katherine Holzer Sanner	Frackville
Blanche Sarah Sechler	Danville
Leonore Mae Shamp	Lewisburg
Carol Frances Spratt	Lewisburg
Gertrude Stannert	Lewisburg
Margaret Stevenson	McVeytown
Frank Laton Stewart	Vandergrift
Rosa Ellen Stolz	Philadelphia
Beatrice P. Weill	Lancaster
Dorothy Wolfe	Lewisburg
Violetta Wolfe	Rebersburg
Carol Schultz Yingling	Jersey City, N. J.
Sara Emma Zeitler	Punxsutawney

VIOLIN, VIOLA, VIOLONCELLO, DOUBLE BASS.

Clarence Anthony Bernhard	Hoyt
Gustavo Bernard	Havana, Cuba
Marinas Kate Berry	Goshen, Ind.
Alice Brown	Lewisburg
Ella Cramer	Lewisburg
Marguerite Cornelius	Lewisburg
Benajah Jack Gardner	Factoryville
James Fuller Hayes	Montoursville
Theodore Bland Hoy	Montandon
Quay Kauffman	Lewisburg
Estella Lowenstein	Danville

NAME.	RESIDENCE.
Louise H. Robinson	Milton
Leo Lawrence Rockwell	Monroeton
Carol Frances Spratt	Lewisburg
Earle Wayne Whitney	Wellsboro
Sara Emma Zeitler	Punxsutawney

FLUTE.

Charles Edgar Dreher	Paxinos

SCIENCE OF MUSIC.

Elizabeth Irene Barber	Bridgeport
Clarence Anthony Bernhard	Hoyt
Anne Frances Chaffee	Towanda
Marguerite Cornelius	Lewisburg
Ella Cramer	Lewisburg
James Fuller Hayes	Montoursville
Theodore Bland Hoy	Montandon
John M. Thomas	Falls Creek
Earle Wayne Whitney	Wellsboro
Clara Wheeler	Sunbury

SUMMARY.

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Pipe Organ	8
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Violin, Viola, Violoncello, Double Bass	16
Flute	1
Science of Music	10
Mandolin, Guitar, Banjo	33
Total Lessons	204
Total Pupils	112

COURSES OF STUDY.

The School of Music is under the special charge of a French artist, whose musical education was received at the Conservatory of Music in Paris, and who has had a large and successful experience in teaching. He is supported by competent assistants, and the course is designed to afford every needed facility for the study of Vocal and Instrumental Music. An ample supply of pianos from the best makers is provided for practice, including a Concert Grand.

INSRUMENTAL MUSIC.

COURSE FOR THE PIANO-FORTE OF FOUR YEARS FOR GRADUATION.

The pupil is required to pursue the most thoroughly approved modern system of technical training. After the first rudiments have been mastered, the course of instruction leads to the practice of *etudes,* designed to unite with purely technical drill the requirements of artistic style and expression.

PIANO.

FIRST YEAR.

New England Conservatory method, 1 and 2 parts; Le Couppey Ecole du Méchanisme; Duvernoy Ecole du Méchanisme, books 1, 2, and 3; Kohler, op. 157; Czerny, fifty Studies from op. 261, 821, 599, and 139, ed. of Heinrich Germer; Meyer, Progressive and Melodious Studies; Robert Sutton's "The Elements of the Theory of Music"; Brown, Musical Biographies of Composers.

SECOND YEAR.

Plaidy, Technical Studies; Czerny, Polyrhythmic Studies from op. 139, 834, 335, and 299; Czerny, Studies of Ornamentation from op. 355 and 833; Czerny, twelve Studies from op. 299 and 740; Czerny,

thirty studies from op. 299 and 834 (Heinrich Germer Edition); Heller, Expression and Rhythm, op. 135; Kullak, Preparatory Octave Studies; Homer Norris's Practical Harmony; History of Music.

THIRD YEAR.

Clementi "Gradus ad Parnassum;" Tausig, Daily Studies; Kohler Cramer Studies, books, 1, 2, and 3; Czerny, thirty-six Octave Studies from op. 821, 335, 740, and 834 (Heinrich Germer Edition); Norris, Harmony; Dr. Marx, Universal School of Music.

FOURTH YEAR.

Bach, two and three-voiced invention; Czerny, twenty Studies from op. 325; Czerny, nineteen Studies from op. 740; Czerny, Toccata, op. 92 (Heinrich Germer Edition); Kullak, Octave Studies; Chopin, Studies; Liszt, Studies; Bach Well-Tempered Clavichord (prelude and fuges); Kullak, Art of Touch; Symphonies of Haydn, Mozart, and Beethoven.

During the year, selected studies from Bertini, Rosselen, Moscheles, Heez, and Thalberg are also given to the pupils.

That the æsthetic development may be proportionately secured, the above exercises are supplemented by the study of the works of the best composers.

COURSE FOR PIPE ORGAN.

The course is based upon:

Dudley Buck's Pedal Studies, and upon the works of Rink, Batiste, Lefébure-Wely, Guilmant, and others

COURSE FOR THE VIOLIN.

This course is based upon:

Dancla's School of Mechanism; De Beriot's Violinist's First Guide; Fiorillo's Studies; Alard's Studies; Kreutzer's Studies, etc., with selections from the compositions of the best writers for this instrument.

COURSE FOR THE VIOLONCELLO.

Instruction for this instrument is based upon:

Méthod Pratique pour le Violoncello, par S. Lee; studies by Piatti and Romberg.

COURSE FOR VIOLA.

Bruni's Methods and Studies, by Campagnoli.

COURSE FOR CONTREBASSO (DOUBLE BASS).

Bottesini's Method.

VOICE CULTURE.

COURSE OF THREE YEARS FOR GRADUATION.

Careful instruction is given in the use of the voice, and the correct manner of producing purity of tone. To secure control over the voice and gain for it flexibility, fullness, and durability, thorough drills are afforded in such technical exercises as:

Lamperti's and Vannuccini's Italian Methods, Vocalises of Sieber, Concone, Tütgen, Vaccai, Bonaldi, Bordogni, Marchesi, and Ponafka; Lamperti's Studies in Bravura Singing. For expression and the development of a pure style, practice is afforded in singing the best English, German, Italian, and French Songs, Operatic Arias and Solos from the Oratorios.

COURSE IN HARMONY.

It is urgently recommended that the study of Harmony be included in the other musical work, inasmuch as a sound knowledge of its principles is essential to the success of all vocalists and instrumentalists. The text-books used are: Bussler's Harmonic Exercises, Homer Norris's Practical Harmony, Richter's Counterpoint, and Reicha's Course of Musical Composition.

THE ORCHESTRA.

CLASSES FOR ALL ORCHESTRAL INSTRUMENTS.

Students who are sufficiently advanced in any of the above musical instruments will have opportunity of practice in string quartettes, trios, concertos, and symphonies of Beethoven, Mozart and Haydn.

THE BAND.

A Brass Band, consisting of about twenty pieces, has been organized, and is led by M. Elysée Aviragnet, Director of the School of Music. The band meets weekly in the Laboratory for rehearsal, and furnishes street and concert music for University and town exercises.

RECITALS.

On the Friday evening prior to Commencement Week a public recital of the School of Music is held in Bucknell Hall.

The public examination of those who desire certificates of proficiency is held in Bucknell Hall the Saturday afternoon before commencement. At this time each pupil plays or sings two pieces of high grade, and reads an essay on some subject connected with music.

TUITION.

Extra tuition is charged for instruction in Music, as follows:

	Per Annum.
Vocal Music	$60 00
Music on Piano *or* Organ	60 00
Harmony, in Class	18 00
Harmony, private lessons	60 00
Use of Instruments for practice	10 00
Guitar, in Class	15 00
	Per Lesson.
Special individual instruction in Music	$1 00

No reduction will be made except in case of protracted illness.

Instruction in the Orchestra and in Harmony is free to pupils otherwise studying music.

RESIDENCE OF MUSIC PUPILS.

Pupils in music reside in the Women's College and are under the care of the Dean of Department for Women. Students pursuing any of the Institute courses can also take studies in music. Those who wish to make music a specialty are recommended to take at least one study each term in Language or Literature.

The regular charges for pupils in music, residing in the Institute,

including one literary subject per term, are $200 per annum. This *does not* include charges for instruction in music, which are determined by the number of lessons taken per week.

GRADUATION IN MUSIC.

Students who complete any of the Courses in Music and pass the examinations, receive a certificate of proficiency. Students will not be ranked as Seniors in Music until they have passed an examination before the Committee. Besides the examination before the Committee for admission to the Senior Class, students will be required to pass a preliminary examination at the opening of the Spring term, and a final examination before Commencement Week. Students will not be admitted to the final examination unless they have passed the preliminary examinations.

THE AVIRAGNET PRIZES.

Professor Elysée Aviragnet has established three prizes, as follows:

1. (*a*) One prize for excellence in Instrumental Music and Harmony, (*b*) one for excellence in the Science of Music.

For 1905 the prize for excellence in Instrumental Music and Harmony was awarded to Sadie Wolverton.

2. A prize for excellence in French.

For 1905 this prize was awarded to Julia P. Brown and Beatrice Weill.

GENERAL REMARKS.

Young ladies attending upon the School of Music are subject to the administration and other regulations enacted by the Board of Trustees for the government of students in the Women's College. These rules are given on page 191 of this Catalogue. Students of Music are also entitled to all the privileges of the Women's College.

For information respecting the School of Music, address the Director, Elysée Aviragnet, Mus. Doc., or the President of the University.

UNIVERSITY CALENDAR.

1906-1907.

Second Term Ends, ...Thursday, March 22, 1906

SPRING RECESS.

Third Term Begins, ...Wednesday, March 28, 1906
Sermon before the Christian Associations, ..Sunday, April 8, 1906
Declamation of the Third Form, Academy, Saturday, April 14, 1906
Exercises of the Fourth-Year Class, Institute,
Saturday, April 28, 1906
Contest in Elocution, Institute, ...Saturday, May 12, 1906
Exhibition of the Junior Class, College,.....Friday, May 18, 1906
Examinations, ... Wednesday to Saturday, June 13 to 16, 1906
Exhibition, School of Music, ...Friday, June 15, 1906
Junior Debate, ...Saturday, June 16, 1906
Baccalaureate Sermon, ...Sunday, June 17, 1906
Sermon before the Education Society, ...Sunday, June 17, 1906
Examinations for Admission to College, ...Monday, June 18, 1906
Meeting of the Alumnæ of the Institute,....Monday, June 18, 1906
Oration before the Literary Societies, ...Monday, June 18, 1906
Annual Meeting of the Trustees, ...Tuesday, June 19, 1906
Annual Meeting of the Alumni,.....Tuesday, June 19, 1906
Exhibition of the Fourth Form, Academy,. Tuesday, June 19, 1906
Graduating Exercises of the Institute, ...Tuesday, June 19, 1906
Oration before the Alumni,.....Tuesday, June 19, 1906
ANNUAL COMMENCEMENT, the 56th, Wednesday, June 20, 1906

SUMMER VACATION

Fall Examinations for Admission to College,
Wednesday, September 19, 1906
First Term Begins, ...Thursday, September 20, 1906
Reception by Christian Associations, Saturday, September 22, 1906
Introductory Address, ...Monday, September 24, 1906
Matriculation, ...Monday, November 26, 1906
Thanksgiving (recess of three days), Thursday, November 29, 1906
First Term Ends, ...Thursday, December 20, 1906

HOLIDAY RECESS.

Second Term Begins, ...Wednesday, January 2, 1907
Day of Prayer for Colleges, ...Thursday, January 24, 1907
Second Term Ends, ...Thursday, March 21, 1907

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Bucknell University Bulletin.

SIXTH SERIES JANUARY, 1907 NO. 3

CATALOGUE

1906=1907.

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LIBRARY OF THE UNIVERSITY OF ILLINOIS

THE

FIFTY-SEVENTH CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

Bucknell University:

COLLEGE OF LIBERAL ARTS.

FOR THE YEAR 1906-1907.

DEPARTMENTS.

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SUMMARY OF ATTENDANCE.

The College of Liberal Arts	514
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The School of Music for Both Sexes	107
Total (deducting names repeated)	729

CALENDAR.

The Spring Term Begins	Tuesday, April 2, 1907
Annual Commencement	Wednesday, June 19, 1907
The Fall Term Begins	Thursday, September 19, 1907
The Winter Term Begins	Thursday, January 2, 1908

PLAN AND PURPOSE OF THE UNIVERSITY.

CORPORATE RIGHTS.

The University was incorporated with full University privileges by the Legislature of Pennsylvania, in an Act approved by the Governor on the fifth day of February, 1846. The management of the University is committed to a Board of Trustees, which is self-perpetuating. The trustees are prohibited, for any cause or under any pretext whatever, from encumbering by mortgage or otherwise the real estate or any other property of the institution. It is required by charter that no religious sentiments are to be counted a disability to hinder the election of an individual to any office among the teachers of the institution, or to debar persons from attendance as pupils, or in any manner to abridge their privileges or immunities as students in any department of the University.

ENDOWMENT.

The total property of the institution exceeds one million dollars. The productive investment amounts to over seven hundred thousand dollars. This money has been the gift of several hundred persons. Among the benefactors of the institution (including only those who have given ten thousand dollars or more and excluding benefactors now living) have been: David Jayne, M. D., John Price Crozer, William Bucknell.

THE MILLION DOLLAR MOVEMENT.

The Board of Trustees at its meeting in January, 1903, authorized an effort to increase the endowment by one million dollars. It is expected to obtain this sum by gifts and legacies.

FORMS OF GIFTS.

To persons wishing to give money for the education of the young, the following forms of beneficence are suggested:

(a) Departments can be endowed for $100,000 and upward.

(b) Professorships can be endowed for $50,000 each.

(c) Fellowships can be endowed for $10,000 each.

(d) Scholarships can be endowed by a gift of $1,000 to $5,000 each, the income to be given toward the expenses of the student. The income will be estimated from the average income of the funds of the Institution, and is applied only in the year in which it falls due.

(e) A loan fund may be established. The interest from this is loaned to students, the principal being kept intact. In this way a large, active loan-fund accumulates.

Each of these forms of beneficence will bear and perpetuate the name of the donor or of the person designated by him.

FORM OF BEQUEST.

To persons desiring to aid in increasing the efficiency of the schools in their work of preparing young men and young women for usefulness, the following form of bequest is recommended:

I give and bequeath to the Bucknell University, of Lewisburg, Pennsylvania, the sum of ..... Dollars for the general purpose of said school, according to the Act of Assembly incorporating the same.

Or if for a special purpose:

I give and bequeath to the Bucknell University, at Lewisburg, Pennsylvania, the sum of ..... Dollars for the establishment of a Department, Professorship, fellowship, scholarship or loan fund, to bear and perpetuate the name of.....forever.

ORGANIZATION.

The University comprises four schools:

I. THE COLLEGE offers eight Courses of study, each of four years, and each leading to its appropriate degree:

1. **The Classical Course.**
2. **The Philosophical Course.**
3. **The Course in Jurisprudence.**
4. **The General Science Course.**
5. **The Course in Biology.**
6. **The Course in Chemistry.**
7. **The Course in Civil Engineering.**
8. **The Course in Electrical Engineering.**

II. THE INSTITUTE for young women has three Courses of study, the Literary, the Classical, and the Scientific, leading to diplomas which admit to the Sophomore year in College.

III. THE ACADEMY is designed to fit young men for College, either for the Classical, Philosophical, Scientific, or Technological Courses.

IV. THE SCHOOL OF MUSIC has full Courses in instrumental and vocal music, and grants diplomas to those who complete any of the specified Courses.

These schools are one corporation, have one President, who has general charge, with a Principal in more immediate charge of each of the subordinate departments. All expenses are met from funds in the hands of a common treasurer.

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MEETINGS OF THE BOARD.

The annual meeting is held on Tuesday of Commencement Week, at Lewisburg.

The semi-annual meeting is held on the second Thursday in January, in Philadelphia.

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THE UNIVERSITY PROPERTY.

I. THE MAIN COLLEGE.

The main College building is situated on a hill one hundred feet above the Susquehanna River, and overlooks scenery of unsurpassed beauty. It was designed by Thomas U. Walter, LL. D., architect of the dome and wings of the Capitol at Washington, D. C., and is in the Grecian style, combining dignity and simplicity. The building has a façade of three hundred and twenty feet. The central portion is eighty feet square, and is strengthened in front by four massive columns. On the first floor are six recitation rooms. On the second floor are the halls of the Theta Alpha and Euepia Literary Societies, Reading-room, and Museum of Natural History.

In the third story is Commencement Hall, with a seating capacity of fifteen hundred.

The wings on the eastern and western sides, respectively, of the Main Building, are each one hundred and twenty feet in length and four stories in height, and are used for students' rooms.

Several thousand dollars have been expended recently in improving the College building.

II. THE WEST COLLEGE.

The West College was erected in the year 1900. It is constructed of brick, four stories in height, and contains ninety-seven rooms, one of which is a hall for the use of the Young Men's Christian Association, and the others are designed for the residence of students.

III. THE EAST COLLEGE.

The East College was begun in 1906. It is constructed of brick, four stories in height above the basement. It contains one hundred and twelve rooms for the residence of students.

IV. THE BUCKNELL HALL.

Bucknell Hall is the Chapel of the College. In it all the students of the College meet daily for worship.

V. THE CARNEGIE LIBRARY BUILDING.

The Library building was given by the Honorable Andrew Carnegie, D. C. L., in the year 1905.

The building is sixty-four feet by ninety, built of pressed brick, and trimmed with brownstone. The center, thirty feet by ninety, is used as a reading room. At the height of sixteen feet there is a gallery extending around the room. The sides, each fifteen feet by ninety, are divided on the first floor into rooms for special collections and for offices. The second and third floors will be used for stack rooms. The building will accommodate about 150,000 volumes.

VI. THE OBSERVATORY.

The Observatory was erected in 1887 and enlarged in 1905. It is designed for the use of students in Practical Astronomy.

The equipment represents the latest improvements in astronomical instruments. It consists of a Clark Equatorial Telescope of 10 inches aperture and 12½ feet focal length, furnished with a fine position Micrometer and all the usual accessories; a Spectroscope with prism and grating by Brashear; a 3-inch prismatic Transit, with a 13-wire movable Micrometer; a Fauth Chronograph with Bond Spring Gov-

ernor; a Waldo Precision Clock for sidereal time, with mercurial compensation, break circuiting apparatus; Daniell's battery and telegraph sounders; a Seth Thomas Clock for solar time; a Sextant; a 3-inch Altitude Azimuth Refractor; a set of Meteorological instruments; Celestial globes and maps, and standard works on Theoretical and Practical Astronomy.

VII. THE CHEMICAL LABORATORY.

The Laboratory was erected in 1890, and is a building forty-three feet in width and eight-six feet in length, with two stories above the basement. In the first story, which has a clear height of fifteen feet, are a lecture-room, with seating for one hundred and twenty-five students, and a large working-room, in which are tables for individual work in Chemical Analysis; the second floor contains a lecture-room and rooms for laboratory work in Organic Science; the basement has rooms for Applied Chemistry, and a fire-proof room.

VIII. THE PHYSICAL LABORATORY.

The Physical Laboratory was erected in 1902. It is a building of two stories, fifty by sixty, constructed of brick trimmed with brownstone. The basement serves for the heating and lighting plant of the institution; the main story, with one room twenty by fifty and another forty by forty-five, accommodates the Department of Physics. A large dark-room was added to the equipment in 1905.

IX. THE TUSTIN GYMNASIUM.

The basement of the Gymnasium is built of stone, and contains an office for the director, rooms for students, lockers, dressing-rooms, and shower baths. The second story is built of brick, rising twenty-two feet from the main floor to the square, and is open to the roof. At the height

of twelve feet a running-track gallery, six feet wide, surrounds the room.

X. THE ATHLETIC FIELD.

The field is conveniently located at the foot of "College Hill," and has been graded and fitted up for out-door sports. In the northwest corner, at the main entrance to the college grounds, a shaded section has been set aside for tennis. The athletic field is sufficiently large for football, baseball, and lacrosse. A running track, a quarter-mile in length, has been constructed on the eastern part of the campus. The Tustin Gymnasium is located at the end of the field, so as to be near to the center of exercise, and easily accessible to the trainers and students.

XI. THE ACADEMY.

1. The Main Building of the Academy is situated on "College Hill," and is fifty feet in width by eighty feet in length, and three stories in height. On the first floor is a dining-room, thirty feet by thirty-six feet; two recitation-rooms, a reception-room, and the Principal's office; on the second floor are suites of rooms for the Principal and his family and for the Matron. The third floor is used for students' rooms, each twenty feet by twelve feet, and fourteen feet high.

2. The East Hall of the Academy is the Bucknell Cottage for young men, and is contiguous to the main building and connected with it by a covered passageway. It is of brick, three stories high, sixty feet in length and forty feet in width, and is finished in natural wood. The building contains a general study-room, a recitation-room, teachers' apartments, and rooms for students. The rooms have high ceilings, large double windows with inside shutters, and two commodious closets each.

Both buildings are supplied with hot and cold water, are warmed by steam and lighted by electricity.

XII. BUILDINGS OF THE WOMEN'S COLLEGE.

The buildings and campus of this department are set apart for the use of women taking courses in the College, in the Institute, and in the School of Music.

1. The Main Building contains, on the first floor, an office for the Dean and the Registrar, a reception-room, the office of the Director of Music, music-rooms, recitation-rooms, and a dining-hall; on the second floor, a school-room and a parlor; on the third floor, a library-room, teachers' apartments, and students' rooms. The main building was enlarged, 1905, by an addition to the dining-hall.

2. The South Hall, erected in 1869, is devoted to students' rooms, except the third story, which is used as a gymnasium. This gymnasium has been lately improved and equipped.

3. The Bucknell Cottage stands to the southwest of the Main Building, and is connected with it by an enclosed passageway. It is built of brick, in the Queen Anne style of architecture, and has dimensions of forty feet by one hundred feet. The interior is finished in natural wood, and is equipped, in matters of light, heat, and ventilation, with modern improvements.

The portion allotted to students' rooms affords accommodations for forty occupants. These rooms are in suites on the general plan of a center parlor, with bed-rooms and closets on either side. In this building is the **Studio,** a spacious room with such adjustments for the admission of light and supply of unencumbered wall surfaces as adapt it for the execution and display of art products.

4. New Cottage for women, with a front of one hundred and twenty-eight feet and a depth of forty feet, rising

three stories above the basement, was erected in 1905. It contains eighty-seven rooms.

The **Calisthenium** occupies the whole of the upper story, and has a floor surface of over four thousand feet.

All the buildings are supplied with hot and cold water, are warmed by steam, and lighted by electricity.

5. The Campus of the Women's College is separated from the main college grounds, by Loomis Street.

XIII. HEATING AND LIGHTING PLANT.

A central steam heating and electric lighting plant has been erected; all the rooms, public and private, in the several buildings of the institution are warmed and lighted from this plant.

XIV. THE PRESIDENT'S HOUSE.

The Corporation also owns a house for the use of the President of the University.

THE COLLEGE.

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ARTHUR ANSON SMITH, PH. B.,	*Jurisprudence.*	Williamsport

NAME.	MAJOR SUBJECT.	RESIDENCE.
CLOYD NILLIS STEININGER, SC. B.,	*Jurisprudence.*	Lewisburg
ROBERT JOSEPH TERRELL, A. B.,	*History.*	New York City
CHARLES MILTON TEUFEL, A. B.,	*Political Science.*	Milton
LEVI JOSEPH ULMER, SC. B.,	*Education.*	Williamsport
ALVIN MONROE WEAVER, A. B.,	*Political Science.*	Williamsport
MABELLE ESTELLE WHEELER, PH. B.,	*Literature.*	Erie
JOHN E. WILLIAMS, SC. B.,	*Education.*	Olyphant
SAMUEL GARBER WILLIAMS, PH. B.,	*Jurisprudence.*	Waynesboro
CLIFFORD VERNON WILLIAMSON, PH. B.,	*Pedagogy.*	Perth Amboy, N. J.
RUTLEDGE THORNTON WILTBANK, PH. B.,	*Biblical Literature.*	Minneapolis, Minn.
JENNY MAY WOOD, A. B.,	*Literature.*	Factoryville
JOHN ADAM YOUNG, PH. B.,	*Education.*	Kane
IRWIN WELLINGTON ZIEGLER, SC. B.,	*History.*	Linden Hall

Graduate Students, 114.

THE SENIOR CLASS.

CLASS OF 1907.

NAME.	RESIDENCE.	ROOM.
HOMER HASTINGS ADAMS,	*Grange.*	No. 31, East Wing
PERCY CHESTER ANDREWS,	*New Bethlehem.*	No. 26, West College
WENDELL MCMINN AUGUST,	*Brockwayville.*	St. George Street
CHARLES DARCIE BAER,	*Connellsville.*	No. 53, West College
MARSHALL LEON BENN,	*Coudersport.*	No. 62, West College
CLARENCE ANTHONY BERNHARD,	*Hoyt.*	No. 5, East Wing
CLARA BLACK,	*Union City.*	South Sixth Street
FREDERIC RUSSELL BOWER,	*Lewisburg.*	South Sixth Street
WALTER BURNETTE BRINKER,	*Mt. Pleasant.*	No. 31, East Wing
CHAUNCEY EUGENE BROCKWAY,	*Sharon.*	No. 52, West College
ERNEST SABIN BURROWS,	*Picture Rocks.*	No. 47, West College
LEVI CARL,	*Kerrsville.*	No. 40, West College
PETER GARFIELD COBER,	*Pine Hill.*	No. 13, West Wing
WILLIAM FREDERIC ELSESSER,	*Philadelphia.*	No. 10, West Wing
GORDON EVANS,	*Scranton*	No. 9, West Wing
ELLISON MCLEAN FASSETT,	*Canton.*	St. George Street
ANNA GALBRAITH,	*Williamsport.*	Women's College
MARY EARLEY GALBRAITH,	*Williamsport.*	Women's College
MABEL ELIZABETH GLEASON,	*Canton.*	Women's College

NAME.	RESIDENCE.	ROOM.
CHESTER HAROLD GODSHALL,	*Philadelphia.*	No. 46, West College
ERNEST MILTON GRESS,	*Dublin Mills.*	No. 12, West College
HAVARD GRIFFITH,	*Norristown.*	No. 8, West Wing
CHARLES GRIMMINGER,	*Altoona.*	No. 9, West Wing
HORACE LEROY HALL,	*Sharon.*	No. 45, West College
SPENSER TILLINGHAST HARRIS,	*Lewisburg.*	University Avenue
GEORGE WILLIAM HAWK,	*Tower City.*	No. 42, West College
F. LUTHER HEINZE,	*Ashland.*	No. 61, West College
AMMON GROSS HESS,	*Manheim.*	No. 5, East Wing
WILLIAM DUDLEY HINMAN,	*Monroeton.*	No. 11, East Wing
COIT ROSCOE HOECHST,	*East Berlin.*	No. 12, East Wing
THEODORE BLAND HOY,	*Montandon.*	Montandon
ELKANAH HULLEY,	*Chester.*	South Fourth Street
WILLIAM CURRIE HULLEY,	*Chester.*	South Fourth Street
RUTH CUSHMAN JONES,	*Mahanoy City.*	Women's College
GEORGE WASHINGTON LEACH,	*New Bethlehem.*	St. George Street
CHARLES AUSTIN LEMMON,	*Honeybrook.*	No. 31, East Wing
MARGARET WYNONA LESHER,	*Northumberland.*	South Third Street
THOMAS BEEBER LOCKARD,	*Montoursville.*	No. 18, West Wing
CLARENCE EDWARD LONG,	*Shippensburg.*	South Seventh Street
ESAU HERBERT LOOMIS,	*Wilmington, Del.*	No. 29, East Wing

NAME.	RESIDENCE.	ROOM.
LAWRENCE OSCAR MANLEY,	*Canton.*	No. 15, West Wing
NORMAN EDWARD MCCALL,	*Falls Creek.*	No. 14, West Wing
ARTHUR EVRIL MCNINCH,	*Lewisburg.*	No. 9, West Wing
JOHN LAMBERT MINOR,	*Kittanning.*	No. 3, East Wing
CALVIN OBERDORF,	*Sunbury.*	No. 19, East Wing
HELEN MAE OLDS,	*Elmhurst.*	Market Street
URSULA DAWES PARMLEY,	*Mahanoy City.*	Women's College
GILBERT SOMERS PEREZ,	*Chicago, Ill.*	No. 12, East Wing
CHARLES FRANCIS POTTER,	*Marlboro, Mass.*	No. 16, East Wing
WILLIAM WESLEY RAKER,	*Trout Run.*	No. 20, West Wing
HARRY DELROY REESE,	*Lairdsville.*	No. 20, West Wing
GEORGE A. RIGGS,	*East McKeesport.*	No. 13, West Wing
LEO LAWRENCE ROCKWELL,	*Monroeton.*	No. 15, East Wing
MARGARET ADELIA ROWLANDS,	*Homestead.*	Women's College
EDWIN WILDE SAYLOR,	*Philadelphia.*	No. 40, West College
JACOB HARRY SCHUCH,	*Cogan Station.*	No. 18, West Wing
THOMAS WAYNE SCHULTZ,	*Pennsdale.*	South Seventh Street
JAMES HARRY SHOEMAKER,	*Clarion.*	North Third Street
F. REBECCA SHOVE,	*Wellsboro.*	Women's College
LILA MABEL SILL,	*Bradford.*	South Third Street
FRANK SMIGELSKY,	*Mt. Carmel.*	No. 11, East Wing

NAME.	RESIDENCE.	ROOM.
Sydney Homer Smith,	*Lewisburg.*	Academy
Harry Garfield Snavely,	*Enhaut.*	No. 48, West College
Mary Georgiana Stanton,	*Chinchilla.*	South Third Street
Wilson Willard Staver,	*Williamsport.*	No. 23, West Wing
Charles Carroll Wagner,	*Ottawa.*	No. 9, East Wing
Joseph Nelson Weddle, Jr.,	*West Newton.*	No. 52, West College
Mary Sabine Weddle,	*West Newton.*	Women's College
Alfred Matthews Whitby,	*Pittsburg.*	No. 3, East Wing
Earle Wayne Whitney,	*Wellsboro.*	No. 19, West Wing
Frances Estelle Williams,	*Olyphant.*	Women's College
Jonathan Wolfe,	*Lewisburg.*	St. George Street
Emma Porter Youngman,	*Danville.*	Women's College
Fred Russel Zugschwert,	*Carnegie.*	No. 66, West College

Seniors, 74.

THE JUNIOR CLASS.

CLASS OF 1908.

NAME.	RESIDENCE.	ROOM.
CARLTON GILFILEN APP,	*Lewisburg.*	Lewisburg
HARRY FRANCIS BAILEY,	*Monongahela.*	No. 31, West College
CHARLES BALDWIN,	*Jenningsville.*	No. 76, West College
VICTOR EMERSON PIOLLETTE BARKMAN,	*Clearville.*	North Third Street
WALTER HENRY BERTIN,	*Du Boistown.*	No. 11, West Wing
ELMER KEISER BOLTON,	*Holmesburg.*	No. 35, West College
WINFIELD SCOTT BOOTH,	*Philadelphia.*	No. 24, West Wing
DANA MELISSA BOWER,	*Elkhart, Ind.*	Women's College
JOHN BENJAMIN BOYER,	*Mandata.*	No. 19, West Wing
BENJAMIN ISAAC BRODY,	*Blossburg.*	No. 27, West Wing
CHARLES LUCAS BROMLEY,	*Reading.*	No. 23, East Wing
CHARLES ROCKWELL COLE,	*Williamsport.*	No. 32, West College
EDWARD CARROLL CONDICT,	*Trenton, N. J.*	South Third Street
JOSEPH LEWIS COON,	*Bald Mount.*	No. 3, West Wing
WALTER MADISON CORLL,	*Lewisburg.*	South River Road
JOHN WORTH CURE,	*Jermyn.*	No. 26, East Wing
ROY SIGNOR DAUBERT,	*Milton.*	Milton
WILLIAM STEWART DUNCAN,	*Duncannon.*	No. 24, West College
JOHN ROY FARR,	*Muncy.*	No. 90, West College

NAME.	RESIDENCE.	ROOM.
CHARLES DELANCEY FERGUSON,	*Canton.*	No. 5, West Wing
HELEN MARR FORREST,	*Lewisburg.*	North Second Street
HARRY STEPHEN FURST,	*Cedar Springs.*	No. 91, West College
HARRY CHESTER GARDNER,	*McKeesport.*	No. 93, West College
GEORGE ARTHUR GEBHARDT,	*Jermyn.*	St. George Street
JOHN VANDEVERE GIBNEY,	*Coatesville.*	No. 71, West College
DAVID ALBERT GREEN,	*Sciota.*	No. 17, East Wing
JAMES ANDREW GROFF,	*Lewisburg.*	Lewisburg
RALPH WOMELSDORF HALLER,	*Reading.*	No. 20, East Wing
BENJAMIN THOMAS HARRIS,	*Taylor.*	No. 51, West College
DAVID JACKSON HAWK,	*Tower City.*	No. 41, West College
JAMES FULLER HAYES,	*Montoursville.*	No. 16, West Wing
JOSEPH WELLS HENDERSON,	*Montgomery.*	No. 36, West College
JAMES HERB,	*Mt. Carmel.*	No. 54, West College
CHESTER PENN HIGBY,	*Philipsburg.*	No. 21, East Wing
JENNIE HOPWOOD,	*Plymouth.*	Women's College
JOHN CLYDE HOSTETTER,	*Williamsport.*	No. 6, West Wing
JOHN FARL HUMMER,	*Titusville.*	No. 21, East Wing
EDWARD RICHARDSON INNES,	*Canton.*	St. George Street
PHILIP MUSSER IREY,	*Warren.*	No. 59, West College
AELFRIC JAMES,	*Berwick.*	No. 84, West College

NAME.	RESIDENCE.	ROOM.
MAE ELIZABETH JONES,	*Franklin.*	Women's College
MARGARET ELLEN KALP,	*Mt. Pleasant.*	Women's College
GEORGE WASHINGTON KERSCHNER,	*Trevorton.*	No. 30, West Wing
HORACE BROWN KING,	*East Smethport.*	No. 69, West College
EDWIN IRLAND LAWSHE,	*Lewisburg.*	Third Street
JAMES LOSE, JR.,	*Williamsport.*	No. 34, West College
EDWIN REYNOLDS MANCHESTER,	*Scranton.*	No. 92, West College
JENNIE MACLAGGAN,	*Dallas, Texas.*	St. George Street
ROBERT BRUCE MORRIS,	*Rebersburg.*	No. 32, East Wing
CHARLES AUGUSTUS NICELY,	*Watsontown.*	Watsontown
CHESTER ARTHUR NIPLE,	*Sunbury.*	No. 19, East Wing
WALTER LEROY NOLL,	*Green Park.*	No. 6, West Wing
ELSIE OWENS,	*Lewisburg.*	South Sixth Street
MARGARET WEDDELL PANGBURN,	*Elizabeth.*	Women's College
DAVID JESSE PARK,	*Montandon.*	Montandon
CASIMER EMILE PERRIER,	*Northampton, Mass.*	No. 8, East Wing
LUTHER ORVILLE PIERSOL,	*Honeybrook.*	No. 25, East Wing
BEATRICE RAE RICHARDS,	*Slatington.*	Women's College
OLIVE CROZER RICHARDS,	*Slatington.*	Women's College
WILLIAM WALLACE RIDGE,	*Bloomsburg.*	No. 22, East Wing
EDWIN LEROY ROYER,	*Rebersburg.*	No. 4, West Wing

NAME.	RESIDENCE.	ROOM.
GRACE VIRGINIA ROYER,	*Lewisburg.*	Lewisburg
BARTON RUNYAN SAVIDGE,	*Turbotville.*	No. 70, West College
MARION ELLSWORTH SAYRE,	*New Brighton.*	No. 4, East Wing
EDNA ALICE SEAMAN,	*Allentown.*	Women's College
HARRY CLAUDE SEILER,	*Milton.*	Milton
JAMES FRANCIS SHEEHAN,	*Patton.*	No. 5, West Wing
REUBEN WELTY SHRUM,	*Irwin.*	No. 65, West College
JOSEPH RIEGEL SHULTZ,	*Sunbury.*	Sunbury
ROBERT JACOBI SIMINGTON,	*Mooresburg.*	No. 80, West College
WALLACE JAMES SNYDER,	*Elmhurst.*	No. 20, East Wing
WILL CARLETON SPROUT,	*Picture Rocks.*	No. 8, West Wing
ANNA STAGE,	*Clearfield.*	Women's College
DONALD ALEXANDER STEELE,	*Washington.*	No. 23, West Wing
ROBERT MCCURDY STEELE,	*Brockwayville.*	No. 14, West Wing
JOHN RAYMOND STRATTON,	*Blossburg.*	No. 33, West College
HENRY CLYDE THOMPSON,	*Irwin.*	No. 16, West Wing
HELEN FULKERSON TIFFANY,	*Pleasant Mount.*	Women's College
HARRY MORRISS WALTER,	*Harrisburg.*	No. 37, West College
MERLE B. WHITNEY,	*Buffalo, N. Y.*	No. 94, West College
JOHN J. WILLIAMS,	*Mt. Carmel.*	No. 27, West Wing
VIOLETTA WOLFE,	*Rebersburg.*	Women's College

Juniors, 82.

THE SOPHOMORE CLASS.

CLASS OF 1909.

NAME.	RESIDENCE.	ROOM.
HENRY SNARE AFRICA,	*Huntingdon.*	University Avenue
CARLOS ALVAREZ,	*Quito, Ecuador.*	No. 18, West College
WILLIAM SAMUEL BALDWIN,	*Jenningsville.*	No. 78, West College
KATHERINE BECKLEY,	*Lewisburg.*	St. George Street
AMY VANESSA BOLLINGER,	*Reynoldsville.*	Women's College
HERMAN LONG BRANDT,	*Marietta.*	No. 72, West College
MINNIE ELIZABETH BROBST,	*Sunbury.*	Sunbury
JOHN WARD BROWN,	*Boswell.*	No. 10, West Wing
MARY FRANCES BURGESS,	*Danbury, Conn.*	Women's College
ALFRED LEE CAREY,	*Glen Loch.*	No. 25, East Wing
ANNA ROBERTA CAREY,	*Glen Loch.*	Women's College
ANNE FRANCES CHAFFEE,	*Towanda.*	Women's College
MYRA MAGARGEE CHAFFEE,	*Towanda.*	Women's College
ANSLEY BAILEY CLAYPOOLE,	*Saltsburg.*	No. 89, West College
HELEN DITTING CLIBER,	*Hollidaysburg.*	Women's College
M. ETHEL COCKBURN,	*Newberry.*	Women's College
EDITH ABBOTT CORLIES,	*Philadelphia.*	Women's College
BELLE EMILY CRAIG,	*Philadelphia.*	South First Street
HAZEL MIRIAM CRAIG,	*Philadelphia.*	South First Street

NAME.	RESIDENCE.	ROOM.
WALTER ERNEST DEATS,	*Pittstown, N. J.*	No. 43, West College
HERMAN GROVE DIFENDERFER,	*Milton.*	Milton
JOSEPH EARLE EDWARDS,	*Wilmington, Del.*	No. 29, East Wing
CHARLES ELSON,	*Kane.*	No. 13, East Wing
NEWTON CROMWELL FETTER, JR.,	*Doylestown.*	No. 28, West Wing
HELGE FLORIN,	*Johnsonburg.*	St. George Street
ALICE ETHEL FOUST,	*Milton.*	Milton
CLOYD ALEXANDER FREDERICK,	*Mifflinburg.*	No. 14, East Wing
WALTER SYLVANUS FRICK,	*Lewisburg.*	North First Street
CHARLES CARPENTER FRIES,	*Reading.*	No. 23, East Wing
FRANK HERMAN FRITZ,	*Bloomsburg.*	No. 88, West College
ELLA FLANYGAN GARVIN,	*Marshalltown, Iowa.*	Women's College
KRANK KEMP GIBSON,	*Minersville.*	No. 2, West Wing
JOHN WILLIAM GRANDFIELD,	*Clarksboro, N. J.*	No. 22, East Wing
LILLIAN GREGORY,	*Du Bois.*	Women's College
JAMES WILBUR GRIER,	*Wilkinsburg.*	No. 65, West College
EARL GUILFORD GUYER,	*Williamsport.*	No. 17, West Wing
MATTHEW EMERSON HAGGERTY,	*Nauvoo.*	No. 77, West College
EUNICE VIRGINIA HALL,	*Chinchilla.*	Women's College
MILFORD SCOTT HALLMAN,	*Mapleshade.*	No. 12, West Wing
JOSEPHINE ADELAIDE HANKINS,	*Uniontown.*	Women's College

NAME.	RESIDENCE.	ROOM.
CLARA ELEANOR HARMAN,	*Montoursville.*	Women's College
KATHERINE ELIZABETH HEINEN,	*Milton.*	Milton
JOHN AMMON HESS,	*Winfield.*	Winfield
CHARLES EDGAR HILBISH,	*Northumberland.*	Northumberland
CHARLOTTE HULLEY,	*Lewisburg.*	South Fourth Street
WILLIAM CURRIE HULLEY, JR.,	*Lewisburg.*	South Fourth Street
DONCASTER GEORGE HUMM,	*Punxsutawney.*	No. 7, West College
HAROLD L. HUNTER,	*Oil City.*	No. 73, West College
WALTER SILAS JACOBS, JR.,	*Falls Creek.*	No. 30, West Wing
WILMER C. JOHNSON,	*Downingtown.*	No. 68, West College
LEON ELLISON JONES,	*Buffalo, N. Y.*	No. 23, West Wing
JOHN KASE,	*Danville.*	No. 9, East Wing
CHARLES WYANT KRAMER,	*Oil City.*	No. 86, West College
JOHN ANTON LANDSRATH,	*Union City.*	No. 25, West College
ONESIMUS GEORGE LANGFORD,	*Factoryville.*	No. 26, East Wing
WILLIAM LEISER, 3D.,	*Lewisburg.*	North Fourth Street
MARTHA D. LEOPOLD,	*Milton.*	Milton
CHARLES JOHN LEPPERD,	*Duncannon.*	Lewisburg
WALTER LEWIS,	*Milton.*	Milton
CHARLES OSNER LONG,	*Sunbury.*	Sunbury
WALLACE MCLAUGHLIN,	*Philadelphia.*	No. 32, East Wing

NAME.	RESIDENCE.	ROOM.
CHARLES RICHARD MALLERY,	*Juniata.*	No. 10, East Wing
JOHN HENRY MATHIAS,	*Philadelphia.*	No. 9, West Wing
EDNA LILLIAN MEACHAM,	*Montandon.*	Montandon
HANNAH BEMIS MERVINE,	*Milton.*	Milton
MARY MATILDA MEYER,	*Rebersburg.*	Women's College
DAVID WALTER MOORE,	*Milton.*	Milton
GERTRUDE ADELLA MYERS,	*Williamsport.*	Sixth and St. George Streets
CHARLES AUGUSTUS NYBERG,	*New York City.*	St. George Street
CHARLES O'BRIEN,	*Nanticoke.*	No. 51, West College
BENJAMIN MILES OGDEN,	*Clarion.*	No. 12, West Wing
FRANK M. OLENDORF,	*Athens.*	No. 12, East Wing
ALBERT WAFFLE OWENS,	*Lewisburg.*	South Sixth Street
GUY PAYNE,	*Titusville.*	No. 16, East Wing
ROY HILL PHILSON,	*Berlin.*	No. 28, West Wing
ALBERT THEODORE POFFENBERGER, JR.,	*Sunbury.*	No. 45, West College
WILLIAM HARRY POSTEN,	*Navesink, N. J.*	No. 27, East Wing
IOLA BEATRICE QUANDT,	*Altoona.*	Women's College
FRANK WILLIAM REITER,	*Atlantic Highlands, N. J.*	No. 64, West College
ALLAN GERALD RITTER,	*South Williamsport.*	No. 77, West College
STANLEY HERBERT ROLFE,	*Nanticoke.*	No. 56, West College
EVAN DE LA PLANE ROSER,	*LeGore, Md.*	No. 29, West Wing

NAME.	RESIDENCE.	ROOM.
CHARLES STILWELL ROUSH,	*Lewisburg.*	Lewisburg
KLEINE HARLAN ROYER,	*Rebersburg.*	No. 4, West Wing
MABEL GARDINER RUSSELL,	*Norristown.*	Women's College
PAUL JASPER SANDERS,	*Vicksburg.*	No. 14, East Wing
PRESTON METTLER SAVIDGE,	*Sunbury.*	No. 70, West College
PERCY CLYDE SHADE,	*Mooresburg.*	No. 55, West College
LEONORA MAE SHAMP,	*Lewisburg.*	St. Catherine Street
E. WHARTON SHORTLIDGE,	*Landenburg.*	No. 25, East Wing
IDA MABEL SLOUT,	*Newberry.*	Newberry
HARRY SMITH,	*Nanticoke.*	No. 4, West College
STANTON REINHART SMITH,	*Stroudsburg.*	No. 17, East Wing
IRVIN ALLEN TIMLIN,	*Clarion.*	No. 1, East Wing
MANLEY TOLBERT,	*Athens.*	No. 75, West College
GERTRUDE LILLIAN TURNER,	*Philadelphia.*	Women's College
EUGENE VAN WHY,	*Stroudsburg.*	No. 17, East Wing
MYRTLE HARGRAVE WALKINSHAW,	*Greensburg.*	Women's College
SARA ELLEN WALTERS,	*Lewisburg.*	South Third Street
AMELIA MARGARET WENSEL,	*Lewisburg.*	South Sixth Street
NALA DAMAYANTI WEBB,	*Rutherford, N. J.*	Women's College
GEORGE NORMAN WILKINSON,	*Williamsport.*	No. 85, West College
WARREN TYSON WILSON,	*Du Bois.*	St. George Street

NAME.	RESIDENCE.	ROOM.
RALPH GEORGE WINEGARDNER,	*Muncy.*	St. George Street
FRANK SHULL WOOLSON,	*Fishing Creek, N. J.*	No. 30, East Wing

Sophomores, 105.

THE FRESHMAN CLASS.

CLASS OF 1910.

NAME.	RESIDENCE.	ROOM.
PAUL JAMES ABRAHAM,	*Smithfield.*	No. 32, East Wing
ELIZABETH HOPE ADAMS,	*Trenton, N. J.*	Women's College
MAYME ANDERSON,	*Leechburg,*	Women's College
MINNIE M. ANDREWS,	*North Girard.*	Women's College
KATHERINE ETHEL BAILEY,	*Wellsboro.*	Women's College
JOHN CHARLES BANKS,	*Newark, N. J.*	No. 11, West Wing
CONRAD LESLIE BASKINS,	*North Platte, Neb.*	Milton
FLOYD DAYTON BEEMER,	*Clark's Summit.*	No. 76, West College
PORTER LLOYD BENSON,	*Waterford.*	No. 32, West Wing
WILHELMINA BODLER,	*Germania.*	Women's College
EARL HARLAMAN BOWMAN,	*Allentown.*	No. 23, West College
THOMAS STEWART BRACKEN,	*Derry.*	No. 11, West College
WALTER E. BROWNNE,	*Jersey City, N. J.*	No. 27, West College
ROBERT HARRIS BUTCHER,	*Salem, N. J.*	No. 15, West College
CAMERON A. BUTT,	*New Midway, Md.*	No. 31, West Wing
GEORGE FRANK CASE,	*Troy.*	No. 21, West Wing
MILDRED BLACKWELL CATHERS,	*Flemington, N. J.*	Women's College
MAITE SWASEY CATHRALL,	*West Pittston.*	North Second Street
JANE CHAPMAN,	*Pittsburg.*	Women's College

NAME.	RESIDENCE.	ROOM.
JAMES FRANCIS CLARKE,	*Kane.*	No. 9, East Wing
JOSEPH LESLIE CONOVER,	*Millville, N. J.*	No. 2, East Wing
ELMER J. CROOP,	*Nanticoke.*	No. 57, West College
ALLAN WILSON DAWSON,	*Montoursville.*	No. 15, West Wing
WINNIE VIOLA DICKSON,	*Akron, Ohio.*	Women's College
GEORGE PARSON DRUCKENMILLER,	*Sunbury.*	Sunbury
FRANK SAUNDERS EAKELEY,	*Newark, N. J.*	No. 24½, East Wing
ISAAC NEWTON EARLE, JR.,	*Barnesboro.*	No. 28, East Wing
RAYMOND EASTWOOD,	*Burlington, N. J.*	No. 6, East Wing
C. PARK EDMUNDS,	*Mill Village.*	No. 32, West Wing
ALVINA ENGLISH,	*Wellsboro.*	Women's College
GILBERT HAVEN FAGLEY,	*Mt. Carmel.*	No. 17, West College
GEORGE CAMPBELL FETTER,	*Doylestown.*	No. 26, West Wing
ROY AUSTIN FETTERMAN,	*Centralia.*	No. 28, East Wing
WILLIAM HAYES GATEHOUSE,	*Lewisburg.*	North Second Street
BERTHA LAYCOCK GEIS,	*Belvidere, N. J.*	South Third Street
MACARTHUR GORTON,	*Smithport.*	No. 5, West College
JOHN WESLEY HALLIWELL,	*Kane.*	No. 29, West College
PRISCILLA RICHARDSON HARDESTY,	*Washington, D. C.*	Women's College
JESSE CARLL HARRIS,	*Salem, N. J.*	No. 15, West College
EDWARD STANLEY HARTSHORN,	*Perth Amboy, N. J.*	No. 4, East Wing

NAME.	RESIDENCE.	ROOM.
LYNFORD JAMES HAYNES,	*Waterford.*	No. 22, West Wing
HOMER BLAINE HEDGE,	*Scenery Hill.*	No. 32, East Wing
JOHN CLARENCE HILBISH,	*Northumberland.*	Northumberland
WILLIAM SMITH HOGSETT,	*Uniontown.*	No. 7, West College
JAMES ROSCOE HUSTON,	*Tioga Centre, N. Y.*	No. 30, East Wing
FRANK MURRAY JENNER,	*Troy.*	No. 11, East Wing
MABEL ELIZABETH JOHNSON,	*Mt. Carmel.*	Women's College
ROBERT LYNESS JONES,	*Franklin.*	No. 22, West College
MYRON DONALD KNAPP,	*Elkhart, Ind.*	No. 67, West College
ARTHUR PAUL KOHLER,	*Pitcairn.*	No. 83, West College
STANLEY AARON KREBS,	*Mahanoy City.*	No. 10, West College
HOMER DAVID KRESGE,	*Scranton.*	No. 24, East Wing
EMILY ANGELINE LANE,	*Lane's Mill.*	Women's College
FRANK JOSEPH LIDDY,	*Renovo.*	No. 74, West College
DANIEL EDWARD LEIFER,	*New York, N. Y.*	No. 8, East Wing
CHARLOTTE CHRISTINE LLOYD,	*Olyphant.*	Lewisburg
MICHAEL LEONARD MAHER,	*Port Allegheny.*	No. 13, East Wing
BERTHA MARIE MEINE,	*Coudersport.*	Women's College
GEORGE STANLEY METZGER,	*Montgomery.*	Montgomery
ROY MIKLE,	*Harrisburg.*	No. 21, West Wing
GEORGE FREDERICK MITCH,	*Philadelphia.*	No. 17, West Wing

NAME.	RESIDENCE.	ROOM.
MICHAEL J. MCDONOUGH,	*Westmoor.*	No. 2, East Wing
SARAH MCFARLAND,	*Watsontown.*	Watsontown
GEORGE HOWARD NORTHROP,	*Monroeton.*	No. 15, East Wing
JULIA CARUTHERS ORR,	*West Newton.*	Women's College
FRANK HALFPENNY PAINTER,	*Muncy.*	Lewisburg
WEAVER WEDDEL PANGBURN,	*Elizabeth.*	No. 30, West College
AMY JULIA PARK,	*Montandon.*	Montandon
RUBY GEORGIA PIERSON,	*Clifton Forge, Va.*	Women's College
NEWTON RITNER QUINTON,	*Ariel.*	No. 7, East Wing
PHILIP A. RANDLE,	*Philadelphia.*	No. 9, West College
SARAH LOWRY RAUP,	*Milton.*	Milton
SARAH MATILDA RAY,	*Pittsburg.*	Women's College
ELSIE MAY REEDER,	*Montoursville.*	Women's College
EDWARD ALONZO RICH,	*Du Bois.*	No. 8, East Wing
ALMA ALBERTA RINGLER,	*Trout Run.*	Women's College
HUGH ELLIS ROSER,	*LeGore, Md.*	No. 29, West Wing
ROBERT JACOB SAYLOR,	*Woodsboro, Md.*	No. 31, West College
EDWIN DESH SCHEETZ,	*Quakertown.*	No 32, West Wing
WARREN BURD SCHENCK,	*Trenton, N. J.*	No. 30, East Wing
ALEXANDER SHEERWOOD,	*Waterford.*	No. 22, West Wing
CHARLES NORMAN SILMAN,	*St. Marys.*	No. 49, West College

NAME.	RESIDENCE.	ROOM.
MARY SLAWSON,	*Tunkhannock.*	Women's College
EUGENE PAUL SMITH,	*Bloomsburg.*	No. 2, West Wing
WESLEY LEE SPROUT,	*Picture Rocks.*	No. 8, West Wing
FLORENCE VIRGINIA STAUFFER,	*Millville, N. J.*	Women's College
HOPE BIEBER STERNER,	*Dewart.*	Dewart
ALBERT KNOX STOCKEBRAND,	*Lititz.*	No. 6, East Wing
GEORGE THOENELY STREET, JR.,	*North Braddock.*	No. 28, West Wing
ELSIE MAE TEED,	*Oregon Hill.*	Women's College
JAMES STANLEY TOWNSEND,	*Longport, N. J.*	No. 14, West College
LOUIS JAMES VELTE,	*Philadelphia.*	No. 29, East Wing
ALFRED ROSS WALTER,	*Harrisburg.*	No. 38, West College
GRACE ETHEL WATKINS,	*Scranton.*	Women's College
PALMER MARTIN WAY,	*Cape May, N. J.*	No. 53, West College
EVA EUNICE WEDDLE,	*West Newton.*	Women's College
GEORGIA LUCETTA WEDDLE,	*West Newton.*	Women's College
ARTHUR ANTHONY WERNER,	*St. Marys.*	No. 50, West College
MAX CONRAD WIANT,	*Connellsville.*	South Fourth Street
VIOLA EDNA WILHELM,	*Philadelphia.*	Women's College
IDA KATHERINE WILLIAMS,	*Reynoldsville.*	Women's College
STANLEY MORTON WINTER,	*Nanticoke.*	No. 4, West College
VICTOR H. WINTEROWD,	*Indianapolis, Ind.*	No. 8, West College

NAME.	RESIDENCE.	ROOM.
ELMER BILLINGFELT WOODS,	*Reading*	No. 24, East Wing
CORA MAY WRIGHT,	*Factoryville.*	South Fifth Street
HEBER WILKINSON YOUNGKEN,	*Quakertown.*	No. 22, East Wing
DANIEL HARVEY ZARTMAN,	*Shamokin.*	No. 23, East Wing

Freshmen, 107.

PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
George Foster Bailets,	*Sunbury.*	Sunbury
Harry Blair,	*Mifflinburg.*	No. 78, West College
Emma Elisabeth Bound,	*Milton.*	Milton
Grace Irene DeHart,	*Milton.*	Milton
Lindley H. Dennis,	*Northumberland.*	Northumberland
Margaret Dougal,	*Milton.*	Milton
Harry Caum Haines,	*Mt. Ephraim, N. J.*	No. 63, West College
Harold Burrows Henderson,	*Montgomery.*	No. 44, West College
Daisy Hegarty,	*Madera.*	Women's College
Dora Hegarty,	*Madera.*	Women's College
Theodore Kamensky, Jr.,	*Clearwater, Fla.*	Lewisburg
Riley Harrison Kauffman,	*Shamokin Dam.*	Shamokin Dam
Girton Keller Lenhart,	*Lewisburg.*	Lewisburg
Victor Baltzer Luchsinger,	*West Pittston.*	No. 95, West College
Paul Black Noftsker,	*Shippensburg.*	Lewisburg
Bertram Henry Olmsted,	*Emporium.*	St. George Street
Neal Heath Price,	*Imlaystown, N. J.*	No. 81, West College
Florence Emily Reed,	*Williamsport.*	Williamsport
Walter Roswell Rothrock,	*Milton.*	Milton
William Scott,	*Milton.*	Milton

NAME.	RESIDENCE.	ROOM.
PAUL GARFIELD STOLZ,	*Philadelphia.*	No. 9, West Wing
ANNA KATHARINE SMITH,	*Milton.*	Milton
HARRY LEE SMITH,	*Lewisburg.*	Lewisburg
MOLLIE DOUGAL SMITH,	*Milton.*	Milton
MAUD CAPWELL TIFFANY,	*Factoryville.*	Factoryville
M. SABINA ULMER,	*Cogan Station.*	Lewisburg
SUZANNE EMMA WEDDELL,	*Morgan Park, Ill.*	Women's College
VERA KATHLEEN WEIK,	*Milton.*	Milton
JAMES A. WALL,	*Lewisburg.*	South First Street
JUSTIN EVERETT WALTER,	*Lewisburg.*	Lewisburg
GEORGE EDWARD WEBSTER,	*Millersburg.*	Millersburg
MELLIE ARMSTRONG WESTCOTT,	*Camden, N. J.*	Women's College

Pursuing Select Studies, 32.

SUMMARY.

Graduate Students	114
The Senior Class	74
The Junior Class	82
The Sophomore Class	105
The Freshman Class	107
Pursuing Select Studies	32
Total in the College	514

ADMISSION OF STUDENTS.

TO FRESHMAN STANDING.

EXAMINATIONS.

Examinations for admission to the Freshman Class are held on Monday of Commencement week. Candidates will assemble in Bucknell Hall at 8.30 A. M.

Similar examinations are also held on the day preceding the opening of each term. In special cases candidates may be examined and admitted at other times in the year.

There must be furnished to the President by the candidate satisfactory testimonials of good moral character, and, if from another college, a certificate of honorable dismission must be presented.

The required age for admission to the Freshman Class is fifteen years.

I. GENERAL REQUIREMENTS.

Candidates for admission to any of the Courses must pass examinations in the following.

1. ENGLISH.

a. Writing from dictation.

b. English Grammar.

c. Elements of Rhetoric—Invention, Style, and Punctuation.

d. A brief composition upon a subject assigned at the time of the examination. No candidate will be accepted in English whose work is notably defective in spelling, punctuation, idiom, or division into paragraphs.

e. **Reading.**—A certain number of books are set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable

number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of Rhetoric.

In 1904-08: Shakspere's Merchant of Venice, the Sir Roger De Coverley Papers in the Spectator, Goldsmith's Vicar of Wakefield, Irving's Goldsmith, Coleridge's Ancient Mariner, Scott's Ivanhoe and Lady of the Lake, Carlyle's Essay on Burns, Tennyson's Idylls of the King, Lowell's Vision of Sir Launfal, and George Eliot's Silas Marner.

In 1909: Shakspere's The Merchant of Venice and Julius Cæsar, Bunyan's The Pilgrim's Progress, Part I, The Sir Roger de Coverley Papers in the Spectator, Scott's The Lady of the Lake and Ivanhoe, Irving's Sketch Book, Macaulay's Lays of Ancient Rome, Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur, George Eliot's Silas Marner.

In 1910: Shakspere's The Merchant of Venice and Julius Cæsar, The Sir Roger de Coverley Papers in the Spectator, Franklin's Autobiography, Scott's The Lady of the Lake and Ivanhoe, Irving's Sketch Book, Macaulay's Lays of Ancient Rome, Tennyson's Gareth and Lynette, Lancelot and Elaine, and the Passing of Arthur, George Eliot's Silas Marner.

In 1911: Shakspere's The Merchant of Venice and Julius Cæsar, The Sir Roger de Coverley Papers in the Spectator, Goldsmith's The Vicar of Wakefield, Scott's The Lady of the Lake and Ivanhoe, Irving's Sketch Book, Macaulay's Lays of Ancient Rome, Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur, George Eliot's Silas Marner.

f. **Study and Practice.** This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure.

The books set for this part of the examination will be:

In 1904-08: Shakspere's Macbeth and Julius Cæsar, Milton's Lycidas, Comus, L'Allegro, and Il Penseroso, Burke's Speech on Conciliation with America, and Macaulay's Essays on Milton, Addison, and Johnson.

In 1909, 1910, and 1911: Shakspere's Macbeth, Milton's Lycidas, Comus, L'Allegro, and Il Penseroso, Burke's Speech on Conciliation with America, or Washington's Farewell Address and Webster's First Bunker Hill Oration.

The candidate is advised to do reading parallel and subsidiary to the books mentioned above; he is recommended to commit to memory as much English poetry as possible, and to pay close attention to the essentials of Grammar.

2. Mathematics.

a. Arithmetic, including the Metric System;

b. Algebra, including Quadratic Equations. The requirements in this study include the treatment of Radicals.

c. Plane Geometry.

3. Latin.

a. Latin Grammar;

b. Latin Prose Composition;

c. Four books of Cæsar's Commentaries.

4. History.

a. History of Greece;

b. History of Rome;

c. History of the United States.

5. Science.

a. Physiology;

b. Physics;

c. Geography—Descriptive and Political, and Physical.

6. Free-hand Drawing.

II. PARTICULAR REQUIREMENTS.

A. To enter the Classical Course, the candidate, in addition to the General Requirements, must pass examinations in the following:

1. GREEK.
   a. Greek Grammar;
   b. Greek Prose Composition;
   c. Greek Reader;
   d. Four Books of Xenophon's Anabasis;
   e. Three Books of Homer's Iliad.

2. LATIN.
   a. Seven Orations of Cicero;
   b. Six Books of the Æneid;
   c. Ovid, 1200 lines.

B. To enter the Latin division of the Philosophical Course, or the Course in Jurisprudence, the candidate, in addition to the General Requirements, must pass examination in the following:

1. LATIN.
   a. Seven Orations of Cicero;
   b. Six Books of the Æneid;
   c. Ovid, 1200 lines.

2. Any six units selected from group E.

C. To enter the Greek division of the Philosophical Course, the candidate, in addition to the General Requirements, must pass examination in the following:

1. GREEK.
   a. Greek Grammar;
   b. Greek Prose Composition;
   c. Greek Reader;
   d. Four Books of Xenophon's Anabasis;
   e. Three Books of Homer's Iliad.

2. Any six units selected from group E.

D. To enter the General Science Course, the Course in Biology, the Course in Chemistry, or the Course in Civil or in Electrical Engineering, the candidate, in addition to the General Requirements, must pass examination in the following:

1. GERMAN OR FRENCH.
   The Grammar of the Language, Composition, and Translation at sight of easy prose (three units).

2. Solid Geometry.

3. Any eight units selected from group E.

E. Candidates for admission to the Philosophical Course or to the Scientific Course must present in the case of the former, six units, in case of the latter, nine units, and candidates for the Course in Civil or Electrical Engineering, eight units, selected from the following:

English Literature, History of Modern Europe, History of England, Civics; Zoölogy, Physiography, Botany, Geology, Astronomy; Solid Geometry, Chemistry with Laboratory Practice; French (three units); German (three units).

The time requirement for a unit is five hours a week for a term of twelve weeks.

The requirements for admission to the various Courses amount to the work of a High School with a four years' course.

ADMISSION ON CERTIFICATE.

Graduates of Bucknell Institute, in any of the Courses will be admitted to the Sophomore year of the corresponding Course in the College.

Graduates from Bucknell Academy, in any of the Courses, will be admitted to the corresponding Courses in the College upon the Diploma of the Academy.

Graduates of Pennsylvania State Normal Schools are admitted to the General Science Course without examination.

Certificates of the **College Entrance Examination Board** are accepted for admission, and also certificates of the State Board for Examination of Candidates for registration as Students of Law, and Regents' certificates of New York State.

Students who have completed a course of study in **Preparatory and High Schools** of superior standing may be admitted upon the certificate of the Principal of the school from which they come without examination upon the subjects specified in the certificate.

All students received upon certificate are regarded as in conditional standing, and will not be matriculated unless their work during the first ten weeks of the term shows that their preparation has been sufficiently thorough.

SPECIAL STUDENTS.

Students who do not desire to take a full regular course can enter and select special shorter courses with the sanction of the Faculty; but in all cases, satisfactory examinations must be passed upon the subjects required for admission to the Freshman Class of the Course from which they intend to select.

ADVANCED STANDING.

I. General Requirements. A proportionate increase of age is required for admission to advanced classes over that required for admission to Freshman standing. Other general requirements are the same as for admission to the Freshman Class.

II. Particular Requirements. Candidates for admission to advanced classes are examined both as for admission to Freshman standing and also on the studies that have been pursued by the class which they desire to enter.

MATRICULATION.

Matriculation gives membership in the College and is a condition precedent to all degrees and honors as well as to honorable dismission. No student is admitted to matriculation until he has shown by his class work during at least ten weeks and by his deportment that he is worthy of membership in the College.

HONORABLE DISMISSION.

No person will be dismissed from the College as in good standing who leaves it while under censure; and papers of dismission given to those leaving while under a condition shall either be given as of a date anterior to the term during which that condition was incurred, or shall distinctly mention the condition; nor will honorable dismission be granted to any student

who has not discharged all his pecuniary obligations to the Institution. No papers of dismission or of grades will be granted to a student who has not completed one year of work.

No certificate or statement as to work done in his department is granted by any professor or instructor to an undergraduate.

COURSES OF STUDY.

The Bucknell College offers eight Courses of study leading to degrees in Arts, Philosophy, and Science. Each of the Courses extends through four years. For the Bachelor's degree, thirty-six courses, each of one term five hours a week must be presented, as well as the prescribed work in oral and written Expression, the former of which extends through two years of the course and the latter through four years, and also twelve lecture courses.

I. The Classical Course, leading to the degree of Bachelor of Arts, aims to furnish a liberal education in classical and modern Literature, in the Sciences and Arts. Candidates for the degree of Bachelor of Arts must present at least three courses in German and French.

II. The Philosophical Course, with Latin or Greek in each of its two divisions, aims to furnish a thorough training in advanced studies to those who desire to pursue but one of the Ancient Languages. Those who have completed the studies of the Course, including not less than four courses of German and French, are admitted to the degree of Bachelor of Philosophy. But a candidate who offers nine College courses in either of the Ancient Classical languages may receive the degree of Bachelor of Arts.

III. The Course in Jurisprudence, leading to the degree of Bachelor of Arts, covers four years of work in Law, Political Science, Economics, Philosophy, Literature, and Mathematics. The Course in Jurisprudence is designed for persons preparing for the legal profession, for a business career, and for participation in public affairs. No one is graduated from this Course if his average standing for the Course is below nine.

IV. The General Science Course, leading to the degree of Bachelor of Science, is substantially the same as the Philosophical Course, with the substitution of additional Modern Language and Scientific Studies for Latin and Greek. Candidates for the degree of Bachelor of Science must present at least one year of German or French for admission and at least four courses of college work in German and French as requisites for graduation.

V. The Course in Biology, leading to the first degree in Biological Science, covers four years of work in Biology, Chemistry, Physics, Mathematics, and Literature. No one is admitted to the first degree in Biological Science if his average standing for the Course is below nine.

VI. The Course in Chemistry, leading to the first degree in Chemical Science, covers four years of work in Chemistry, Physics, Mathematics, Biology, and Literature. No one is admitted to the first degree in Chemical Science if his average standing for the Course is below nine.

The requirements in Modern Language are the same for the Course in Jurisprudence as for the Philosophical Course; and for the Course in Biology and for that in Chemistry they are the same as for the Course in General Science.

VII. The Course in Civil Engineering, leading to the first degree in Civil Engineering, covers four years of work in Pure and Applied Mathematics, Chemistry, Technology, and Language. No one is admitted to the first degree in Civil Engineering if his average standing for the Course is below nine.

VIII. The Course in Electrical Engineering, leading to the first degree in Electrical Engineering, covers four years of work in Pure and Applied Mathematics, Chemistry, Physics, Electrotechnics, and Language. No one will be admitted to the first degree in Electrical Engineering if his average standing for the Course is below nine.

IX. Advanced Courses in Arts, in Science, and in Engineering have been established, leading to the degrees respectively of Master of Arts, Master of Science, Civil Engineer, and Electrical Engineer.

The Master's degree is conferred only on condition that the candidate has completed a Course of Liberal study, approved by the Faculty, sufficient in amount to constitute a fifth year of college work. Particulars may be learned by addressing the President.

CURRICULA.

Roman numerals indicate the number of class-exercises required each week; when there is no designation, five is understood.

I. THE CLASSICAL COURSE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

I. TERM— Solid Geometry, Rhetoric, I,
Cicero de Senectute and Livy, Oratory, I.
{ Odyssey,
{ Greek Prose Composition,

II. TERM— Algebra, Rhetoric, I,
Livy, Oratory, I.
{ Lysias' Orations,
{ Greek Testament,

III. TERM— Trigonometry, Rhetoric, I,
Velleius and Pliny, Oratory, I.
{ Plato's Apology,
{ Greek Testament,

SOPHOMORE YEAR.

I. TERM—Rhetoric, Linear Perspective, I,
Horace, Oratory, I.

ELECTIVE STUDIES:

German, *Chemistry,*
Greek History, *Surveying,*
Analytical Geometry.

II. TERM—English Literature, Astronomy, I,
Demosthenes, Oratory, I.

ELECTIVE STUDIES:

Roman History, *Logic,*
Latin, 6, *Chemistry,*
German, *Differential Calculus,*
Physiology.

III. Term—German, History of Art, I.

Elective Studies:

English Oratory,
Public Address,
Argumentation,
Juvenal,
American Civics,
Anthropology,
Botany,
Chemistry,
Integral Calculus,
Elements of Law,
Economic History.

JUNIOR YEAR.

I. Term—Psychology, Greek Literature, I,
French, Thesis.

Elective Studies:

Æschylus and Sophocles,
Latin, 8,
English, 6 or 7,
Practical Oratory,
German,
Spanish,
History, 1,
History, 16,
Economics,
Real Property,
Sociology,
Physiological Psychology,
Experimental Physiology,
Biology,
Embryology,
Sanitary Science,
Chemistry,
Higher Analytics,
Mechanics,
Geology.

II. Term—Ethics, IV, Geology, I,
History of Philosophy, I, Thesis.

Elective Studies:

Euripides,
Latin Poets, 9,
German,
French,
Spanish,
English Bible,
History, 10,
History, 17,
Municipal Sociology,
Money and Banking,
Municipal Government,
Advanced Logic,
Advanced Composition,
Interpretative Reading,
Comparative Psychology,
Zoölogy of Invertebrates,
Animal Histology,
Human Anatomy,
Chemistry,
English, 8,
Mathematics, 11,
Physics,
Personal Property.

III. Term—Theism, History of Education, I,
Thesis.

Elective Studies:

Greek, 8,
Latin, 10,
Journalism,
German,
French,
Spanish,
English Bible,
Equity,
Railroad Transportation,
Zoölogy of Vertebrates,
Cryptogamic Botany,
Bacteriology,
Entomology,
Neurology,
Chemistry,
Astronomy,
Physics.

SENIOR YEAR.

I. Term—Social Ethics, I, Thesis.

Elective Studies:

Greek Testament,
Latin, 11,
Anglo-Saxon,
English, 4 or 9,
German,
Medieval History,
Advanced Ethics,
School Administration,
International Law,
Comparative Anatomy,
Chemistry,
Geology,
Geodetic Astronomy,
Advanced Mechanics,
Contracts.

II. Term—Political Ethics, I, Thesis.

Elective Studies:

Demosthenes de Corona,
Greek Testament,
Latin, 12,
Roman Life,
Chaucer,
French,
Psychology of Education,
Evidence,
Philosophy of Mind,
History, 11,
History of Europe,
Comparative Politics,
Public Finance,
Chemistry,
Economic Geology,
Advanced Physics.

III. Term—Literature, I, Thesis.

ELECTIVE STUDIES:

Plato, Phaedo,	*History of Europe,* 9,
Greek Testament,	*Private Corporations,*
Latin, 13,	*Constitutional Law,*
German,	*Roman Law,*
Shakspere,	*Partnership,*
History of Philosophy,	*Chemistry,*
Philosophy of Education,	*Advanced Physics.*

Seniors may take any of the Electives of the Junior Year for corresponding terms.

II. THE PHILOSOPHICAL COURSE.

Leading to the Degree of Bachelor of Philosophy.

A. LATIN DIVISION.

FRESHMAN YEAR.

I. TERM—	Solid Geometry,	Rhetoric, I,
	Cicero de Senectute and Livy,	Oratory, I.
	German,	
II. TERM—	Algebra,	Rhetoric, I,
	Livy,	Oratory, I.
	German,	
III. TERM—	Trigonometry,	Rhetoric, I,
	Velleius and Pliny,	Oratory, I.
	French,	

SOPHOMORE YEAR.

I. TERM—	Rhetoric,	Linear Perspective, I,
	Horace,	Oratory, I.

ELECTIVE STUDIES:

German,	*Chemistry,*
Greek History,	*Surveying,*
Analytical Geometry.	

II. TERM—	English Literature,	Oratory, I,
	Astronomy, I.	

ELECTIVE STUDIES:

Roman History, *Physiology,*
Latin, 6, *Chemistry,*
German, *Differential Calculus,*
French, *Logic.*

III. TERM—American Civics, History of Art, I.

ELECTIVE STUDIES:

English Oratory, *Anthropology,*
Public Address, *Elementary Law,*
Juvenal, *Botany,*
German, *Chemistry,*
French, *Integral Calculus.*
Economic History.

JUNIOR YEAR.

I. TERM—Psychology, Greek Literature, I,
Thesis.

ELECTIVE STUDIES:

Latin, 8, *Sociology,*
German, *Economics.*
French, *Physiological Psychology,*
Spanish, *Experimental Physiology,*
English, 6 or 7, *Biology,*
Practical Oratory, *Embryology,*
History, 1, *Sanitary Science,*
History, 16, *Chemistry,*
Real Property, *Higher Analytics,*
Mechanics.

II. TERM—Ethics, IV, Geology, I,
History of Philosophy, I, Thesis.

ELECTIVE STUDIES:

Latin, 9, *Advanced Logic,*
English, 8, *Advanced Composition,*
German, *Interpretative Reading,*
French, *Comparative Psychology,*
Spanish, *Zoölogy of Invertebrates*
English Bible, *Animal Histology,*
History, 10, *Human Anatomy,*
History, 17, *Chemistry,*
Money and Banking, *Mathematics,* 11,
Municipal Government, *Physics,*
Personal Property.

III. Term—Theism, History of Education, I,
Thesis.

Elective Studies:

Greek, 8,
Latin, 10,
Journalism,
German,
French,
Spanish,
English Bible,
Equity,
Railroad Transportation,
Cryptogamic Botany,
Zoölogy of Vertebrates,
Entomology,
Bacteriology,
Neurology,
Chemistry,
Astronomy,
Physics.

SENIOR YEAR.

I. Term—Social Ethics, I, Thesis.

Elective Studies:

Latin, 11,
German,
Anglo-Saxon,
English, 4 or 9,
Medieval History,
Advanced Ethics,
Contracts,
School Administration,
International Law,
Comparative Anatomy,
Chemistry,
Geology,
Geodetic Astronomy,
Advanced Mechanics.

II. Term—Political Ethics, I, Thesis.

Elective Studies:

Latin, 12,
Chaucer,
German,
French,
Philosophy of Mind,
History of Europe,
History, 11,
Psychology of Education,
Roman Life,
Comparative Politics,
Public Finance,
Chemistry,
Advanced Physics,
Economic Geology,
Evidence.

III. Term—Literature, I, Thesis.

ELECTIVE STUDIES:

Latin, 13,	*Philosophy of Education*,
German,	*Constitutional Law*,
Shakspere,	*Roman Law*,
History of Philosophy,	*Private Corporations*,
History of Europe,	*Chemistry*,
Comparative Politics,	*Advanced Physics*,
Partnership.	

Seniors may take any of the Electives of the Junior Year for corresponding terms.

THE PHILOSOPHICAL COURSE.

B. GREEK DIVISION.

FRESHMAN YEAR.

I. TERM—	Solid Geometry, Odyssey, German,	Rhetoric, I, Oratory, I.
II. TERM—	Algebra, { Lysias' Orations, { Greek Testament, German,	Rhetoric, I, Oratory, I.
III. TERM—	Trigonometry, { Plato's Apology, { Greek Testament, French,	Rhetoric, I, Oratory, I.

SOPHOMORE YEAR.

I. TERM—	Rhetoric, Greek History,	Linear Perspective, I, Oratory, I.

ELECTIVE STUDIES:

German, *Chemistry,*
Analytical Geometry, *Surveying.*

II. TERM—English Literature, Astronomy, I,
Demosthenes, Oratory, I.

ELECTIVE STUDIES:

German, *Physiology,*
French, *Chemistry,*
Roman History, *Differential Calculus,*
Logic.

III. TERM—American Civics, History of Art, I.

ELECTIVE STUDIES:

English Oratory, *Elements of Law,*
Public Address, *Botany,*
Argumentation, *Anthropology,*
German, *Chemistry,*
French, *Integral Calculus,*
Economic History.

JUNIOR YEAR.

I. TERM—Psychology, Greek Literature, I,
Thesis.

ELECTIVE STUDIES:

Æschylus and Sophocles, *Sociology,*
German, *Economics,*
French, *Physiological Psychology,*
Spanish, *Experimental Physiology,*
English, 6 or 7, *Biology,*
Practical Oratory, *Embryology,*
History, 1, *Sanitary Science,*
History, 16, *Chemistry,*
Real Property, *Higher Analytics,*
Mechanics.

II. TERM—Ethics, IV, Geology, I,
History of Philosophy, I, Thesis.

ELECTIVE STUDIES:

Euripides,
German,
French,
Spanish,
English, 8,
English Bible,
History, 10,
History, 17,
Money and Banking,
Municipal Government,
Municipal Sociology,
Advanced Logic,
Advanced Composition,
Interpretative Reading,
Comparative Psychology,
Zoölogy of Invertebrates,
Animal Histology,
Human Anatomy,
Chemistry,
Mathematics, 11,
Physics,
Personal Property.

III. TERM—Theism, History of Education, I,
Thesis.

ELECTIVE STUDIES:

Greek, 8,
Greek, 13,
Journalism,
German,
French,
Spanish,
English Bible,
Equity,
Railroad Transportation,
Zoölogy of Vertebrates,
Entomology,
Cryptogamic Botany,
Bacteriology,
Neurology,
Chemistry,
Astronomy,
Physics.

SENIOR YEAR.

I. TERM—Social Ethics, I, Thesis.

ELECTIVE STUDIES:

Greek Testament,
English, 4 or 9,
Anglo-Saxon,
German,
Medieval History,
Advanced Ethics,
Advanced Physics,
School Administration,
International Law,
Comparative Anatomy,
Chemistry,
Advanced Mechanics,
Geology,
Geodetic Astronomy,
Contracts.

II. TERM—Political Ethics, I, Thesis.

ELECTIVE STUDIES:

Demosthenes de Corona,	*Psychology of Education,*
Greek Testament,	*Roman Life,*
Chaucer,	*Comparative Politics,*
French,	*Public Finance,*
Philosophy of Mind,	*Chemistry,*
History of Europe, 8,	*Advanced Physics,*
History, 11,	*Economic Geology,*

Evidence.

III. TERM—Literature, I, Thesis.

ELECTIVE STUDIES:

Plato's Phaedo,	*History of Europe,* 9,
Greek Testament,	*Constitutional Law,*
German,	*Roman Law,*
Shakspere,	*Private Corporations,*
History of Philosophy,	*Chemistry,*
Philosophy of Education,	*Advanced Physics,*

Partnership.

Seniors may take any of the Electives of the Junior Year for corresponding terms.

III. THE COURSE IN JURISPRUDENCE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

I. TERM—Solid Geometry, Rhetoric, 1,
Cicero de Senectute and Livy, Oratory, I.
{ Odyssey,
{ Greek Prose Composition,
or German,

II. TERM—Algebra, Rhetoric, I,
Livy, Oratory, I.
{ Lysias' Orations,
{ Greek Testament,
or German,

III. TERM—Trigonometry, Rhetoric, I,
Velleius and Pliny, Oratory, I.
{ Plato's Apology,
{ Greek Testament,
or French,

SOPHOMORE YEAR.

I. TERM—Rhetoric, Political Science, I,
Horace, Oratory, I.

ELECTIVE STUDIES:

Greek History, *Surveying,*
History, 16, *Chemistry,*
German.

II. TERM—English Literature, Political Science, I,
Logic, Oratory, I.

ELECTIVE STUDIES:

Demosthenes, *History,* 17,
Quintilian, *German,*
Roman History, *French.*

III. TERM—Elements of Law, Political Science, I.
American Constitutional Law,

ELECTIVE STUDIES:

Juvenal, *English Oratory,*
German, *Argumentation,*
French, *Public Address,*
Economic History.

JUNIOR YEAR.

I. TERM—Psychology, Blackstone, I,
Economics, Thesis.

ELECTIVE STUDIES:

Real Property, Blackstone B. II., *Latin,* 8,
Constitutional Limitations, *Greek Tragedy,*
English History, 10 or 11, *English Literature,*
Sociology, *Practical Oratory,*
Modern Language.

II. TERM—Ethics, Blackstone, I,
Money and Banking, Thesis.

ELECTIVE STUDIES:

Personal Property, *English Bible,*
Municipal Government, *Greek,*
History, *Latin,* 9,
Logic, Course 2, *English Literature,*
Advanced Composition, *Modern Language,*
Interpretative Reading.

III. TERM—Theism, Blackstone, I,
Private Corporations, Thesis.

ELECTIVE STUDIES:

Equity, *Greek,*
English Bible, *Latin,* 10,
History, *Modern Language.*

SENIOR YEAR.

I. TERM—International Law, Social Ethics, I,
Thesis.

ELECTIVE STUDIES:

Contracts, *English Literature,*
Medieval History, *Latin,* 11,
Anglo-Saxon, *Modern Language.*
Advanced Ethics.

II. TERM—Comparative Politics, Political Ethics, I,
Thesis.

ELECTIVE STUDIES:

Evidence, *Demosthenes de Corona,*
Public Finance, *Latin,* 12,
History of Modern Europe, *Chaucer,*
Philosophy of Mind, *Modern Language.*

III. Term—Roman Law, Literature, I,
Thesis.

Elective Studies:

Partnership, *Shakspere,*
Railroad Transportation, *Plato's Phaedo,*
Metaphysics, *Latin,* 13,
History, 9, *Modern Language,*
History of Philosophy.

Seniors may take any of the Electives of the Junior Year for corresponding terms.

IV. THE GENERAL SCIENCE COURSE.

Leading to the Degree of Bachelor of Science.

FRESHMAN YEAR.

I. Term—Algebra, Rhetoric, I,
Latin, Oratory, I.
German, 2,

II. Term—Trigonometry, Rhetoric, I,
Latin, Oratory, I.
German, 2,

III. Term—Analytical Geometry, Rhetoric, I,
Latin, Oratory, I.
French,

SOPHOMORE YEAR.

I. Term—Rhetoric, Linear Perspective, I,
Oratory, I.

Elective Studies:

Chemistry, *Greek History,*
Horace, *Surveying,*
German, *French.*

II. Term—English Literature, Astronomy, I,
Oratory, I.

Elective Studies:

German, *Physiology,*
French, *Chemistry,*
Roman History, *Differential Calculus,*
Logic.

III. Term—American Civics, History of Art, I.

Elective Studies:

English Oratory, *French,*
Public Address, *Elements of Law,*
Argumentation, *Anthropology,*
Juvenal, *Botany,*
German, *Chemistry,*
Integral Calculus, *Economic History,*

JUNIOR YEAR.

I. Term—Psychology, Greek Literature, I,
Thesis.

Elective Studies:

English, 6 or 7, *Economics,*
Practical Oratory, *Physiological Psychology,*
German, *Experimental Physiology,*
French, *Zoölogy of Vertebrates,*
Spanish, *Embryology,*
History, 1, *Sanitary Science,*
History, 16, *Chemistry,*
Sociology, *Higher Analytics,*
Real Property, *Mechanics.*

II. Term—Ethics, IV, Geology, I,
History of Philosophy, I, Thesis.

ELECTIVE STUDIES:

English, 8,
German,
French,
Spanish,
English Bible,
History, 10,
History, 17,
Money and Banking,
Municipal Government,
Municipal Sociology,
Personal Property,
Advanced Composition,
Interpretative Reading,
Comparative Psychology,
Zoölogy of Vertebrates,
Animal Histology,
Human Anatomy,
Chemistry,
Mathematics, 11,
Physics.

III. TERM—Theism, History of Education, I,
Thesis.

ELECTIVE STUDIES:

Greek, 8,
Journalism,
German,
French,
Spanish,
English Bible,
Railroad Transportation,
Equity,
Cryptogamic Botany,
Biology,
Bacteriology,
Entomology,
Neurology,
Astronomy,
Physics,
Chemistry.

SENIOR YEAR.

I. TERM—Social Ethics, I, Thesis.

ELECTIVE STUDIES:

Anglo-Saxon,
English, 4 or 9,
German,
French,
Medieval History,
Contracts,
International Law,
Comparative Anatomy,
Chemistry,
Geology,
Geodetic Astronomy,
Advanced Physics,
School Administration.

II. TERM—Political Ethics, I, Thesis.

ELECTIVE STUDIES:

German,	*Psychology of Education,*
French,	*Roman Life,*
Chaucer,	*Comparative Politics,*
Philosophy of Mind,	*Public Finance,*
History of Europe,	*Chemistry,*
History, 11,	*Advanced Physics,*
Evidence,	*Economic Geology.*

III. TERM—Literature, I, Thesis.

ELECTIVE STUDIES:

German,	*Partnership,*
French,	*Constitutional Law,*
Shakspere,	*Roman Law,*
History of Philosophy,	*Private Corporations,*
History of Europe,	*Chemistry,*
Philosophy of Education,	*Advanced Physics.*

Seniors may take any of the Electives of the Junior Year for corresponding terms.

V. THE COURSE IN BIOLOGY.

Leading to the First Degree in Biological Science.

FRESHMAN YEAR.

I. TERM—Algebra, Rhetoric, I,
General Chemistry, Oratory, I.
Latin or *German,* 2,

II. TERM—Trigonometry, Rhetoric, I,
Quantitative Chemistry, Oratory, I.
Latin or *German,* 2,

III. TERM—Analytical Geometry, Rhetoric, I,
Quantitative Chemistry, Oratory, I.
Latin or *French,*

SOPHOMORE YEAR.

I. Term—Rhetoric, Drawing, I,
Biology, Oratory, I.
Quantitative Chemistry or
Analytical Geometry,

II. Term.—Invertebrate Zoölogy, Drawing, I,
Physiology, Oratory, I.

Elective Studies:

History, *English Literature,*
Modern Language, *Chemistry,*
Differential Calculus.

III. Term—Vertebrate Zoölogy, Drawing, I.
Botany,

Elective Studies:

Chemistry, *Civics,*
Anthropology, *English Literature,*
Integral Calculus, *Modern Language.*

JUNIOR YEAR.

I. Term—Psychology, Scientific German, I,
Mechanics, Thesis.
Physiological Psychology,

II. Term—Comparative Psychology, Scientific German, I,
Physics, Thesis.

Elective Studies:

History, *Literature,*
Ethics, *Modern Language,*
Metallurgy.

III. Term—Entomology, Scientific German, I,
Physics, Thesis.

Elective Studies:

Toxicology, *English Literature,*
Astronomy, *Modern Language,*
Theism.

SENIOR YEAR.

I. Term—Comparative Osteology, Social Ethics, I,
Embryology, Thesis.

Elective Studies:

Geology, *Modern Language,*
Economics, *Advanced Physics,*
History, *Chemistry.*

II. Term—Histology, Political Ethics, I,
Thesis.

Elective Studies:

Human Anatomy, *English Bible,*
Economic Geology, *Modern Language,*
Money and Banking, *Advanced Physics,*
History, *Chemistry.*

III. Term—Neurology, Forestry, I,
Bacteriology, Thesis.

Elective Studies:

Chemistry, *Literature,*
Advanced Physics, *English Bible,*
Materia Medica, *Modern Language,*
Railroad Transportation, *History.*

Seniors may take any of the Electives of the Junior Year for corresponding terms.

VI. THE COURSE IN CHEMISTRY.

Leading to the First Degree in Chemical Science.

FRESHMAN YEAR.

I. Term—Descriptive Chemistry, Rhetoric, I,
Algebra, Oratory, I.
Latin or *German,* 2,

II. Term—Qualitative Chemistry, Rhetoric, I,
Trigonometry, Oratory, I.
Latin or *German*, 2,

III. Term—Quantitative Chemistry, Rhetoric, I,
Analytical Geometry, Oratory, I.
Latin or *French*,

SOPHOMORE YEAR.

I. Term—Rhetoric, Drawing, I,
Quantitative Chemistry, Oratory, I.
Biology or
Analytical Geometry,

II. Term—Quantitative Chemistry, Drawing, I,
Invertebrate Zoölogy, Oratory, I.

Elective Studies:

Physiology, *English Literature*,
Differential Calculus, *Modern Language*.

III. Term—Quantitative Chemistry, Drawing, I.
Vertebrate Zoölogy,

Elective Studies:

Botany, *Civics*,
Integral Calculus, *Literature*,
Modern Language.

JUNIOR YEAR.

I. Term—Organic Chemistry, Scientific German, I,
Mechanics, Thesis.

Elective Studies:

Toxicology, *History*,
Psychology, *Modern Language*.
Sociology.

II. Term—Organic Chemistry, Scientific German, I,
Physics, Thesis.

ELECTIVE STUDIES:

Metallurgy, *Ethics,*
Comparative Psychology, *History,*
Sanitary Science, *Modern Language.*

III. TERM—Organic Chemistry, Scientific German, I,
Physics, Thesis.

ELECTIVE STUDIES:

Agricultural Chemistry, *Entomology,*
Astronomy, *Theism.*
Modern Language.

SENIOR YEAR.

I. TERM—Physical Chemistry, Social Ethics, I,
Geology, Thesis.

ELECTIVE STUDIES:

Embryology, *History,*
Economics, *Modern Language,*
Advanced Physics.

II. TERM.—Physical Chemistry, Political Ethics, I,
Thesis.

ELECTIVE STUDIES:

Economic Geology, *Money and Banking,*
Advanced Physics, *History,*
Histology, *Modern Language.*

III. TERM—Physical Chemistry, Forestry, I.

ELECTIVE STUDIES:

Advanced Physics, *Constitutional Law,*
Bacteriology, *Railroad Transportation,*
Modern Language.

Seniors may take any of the Electives of the Junior Year for corresponding terms.

VII. THE COURSE IN CIVIL ENGINEERING.

Leading to the First Degree in Civil Engineering.

FRESHMAN YEAR.

I. Term—	Advanced Algebra, Drawing, German, 2,	Rhetoric, I, Oratory, I.
II. Term—	Trigonometry, Drawing, German, 2,	Rhetoric, I, Oratory, I.
III. Term—	Analytical Geometry, Drawing, French,	Rhetoric, I, Oratory, I.

SOPHOMORE YEAR.

I. Term—	Rhetoric, Surveying, General Chemistry,	Geodesy, I, Oratory, I.
II. Term—	Differential Calculus, { Descriptive Geometry, { Machine Design, General Chemistry,	Geodesy, I, Oratory, I.
III. Term—	Integral Calculus, Railroad Surveying, Qualitative Chemistry,	History of Art, I.

JUNIOR YEAR.

I. Term—	Mechanics, Strength of Materials, Roads and Pavements,	Architectural Design, I, Thesis.
II. Term—	Physics, Masonry and Foundations, Metallurgy,	Architectural Design, I, Thesis.

III. TERM—Physics, Geology, I,
Astronomy, Thesis.
{ Water Supply,
{ Sanitary Engineering,

SENIOR YEAR.

I. TERM—Geodetic Astronomy, Social Ethics, I,
Bridges and Building, Thesis.
Geology or
Advanced Mechanics,

II. TERM—Hydraulics and Hydraulic Motors, Political Ethics, I,
Bridges and Buildings, Thesis.
Economic Geology or
Advanced Physics,

III. TERM— { Mine Surveying, Contracts and Specifications, I,
{ City Surveying, Thesis.
Bridges and Buildings,
Railroad Transportation, or
Advanced Physics.

VIII. COURSE IN ELECTRICAL ENGINEERING.

Leading to the First Degree in Electrical Engineering.

FRESHMAN YEAR.

I. TERM—Advanced Algebra, Rhetoric, I,
Drawing, Oratory, I.
German, 2,

II. TERM—Trigonometry, Rhetoric, I,
Drawing, Oratory, I.
German, 2,

III. TERM—Analytical Geometry, Rhetoric, I,
Drawing, Oratory, I.
French,

SOPHOMORE YEAR.

I. Term—	Rhetoric, Mechanics, General Chemistry,	Shopwork, II, Oratory, I.
II. Term—	Differential Calculus, Mechanics, General Chemistry,	Shopwork, II, Oratory, I.
III. Term—	Integral Calculus, Physics, Qualitative Chemistry,	Shopwork, II.

JUNIOR YEAR.

I. Term—	Electrical Measurements, Advanced Mechanics, Strength of Materials,	Machine Design and Tools, Thesis.
II. Term—	Direct Current Machinery, Advanced Physics, Metallurgy,	Machine Design and Tools, Thesis.
III. Term—	Alternating Current Machinery, Advanced Physics, Boilers and Steam Engines,	Gas, Oil, and Air Engines, I, Thesis.

SENIOR YEAR.

I. Term—	Design of Electrical Machinery, Electrical Generating Stations and Transmission, Graphical Analysis of Structures,	Social Ethics, I, Thesis.
II. Term—	Design of Electrical Machinery, Telegraphs, Telephones, Signaling Apparatus, Hydraulic Motors,	Political Ethics, I, Thesis.
III. Term—	Electric Lighting, Electric Railways, Water Supply and Sanitary Engineering,	Contracts and Specifications, I, Thesis.

DEPARTMENTS OF INSTRUCTION.

The method of instruction in the College is varied according to the nature of the subject. Each Professor has his individual mode of imparting knowledge, and this, in the result, is advantageous to the learner. In general, the aim is to discuss each branch as the subject-matter requires, yet all are presented practically, comparatively, and historically, with the view of leading the student to the apprehension of the subject as a whole and in its organic relations. The range and character of the instruction can be gathered from the following account of the different departments.

I. DEPARTMENT OF PHILOSOPHY.

JOHN HOWARD HARRIS, LL. D.,
PROFESSOR OF PSYCHOLOGY AND ETHICS.

CALVIN AURAND HARE, A. M.,
PROFESSOR OF CHRISTIAN EVIDENCES AND LOGIC.

THOMAS ALPHEUS EDWARDS, A. M.,
PROFESSOR OF PEDAGOGY.

The studies in this department embrace Psychology, Philosophy, Ethics, Theism, and Pedagogy.

1. **Psychology, Descriptive and Explanatory.** Required Course. Juniors. First term, five hours.

2. **Physiological and Experimental Psychology.** Elective to Seniors and Juniors. First term, five hours.—PROFESSOR DAVIS.

3. **Lotze, Grundzuege der Psychologie.** Seniors and Juniors. Two hours.

4. **Philosophy of Mind.** Elective to Seniors and Juniors. Second term, five hours.

5. **Logic, Deductive and Inductive.** Second term, five hours. —PROFESSOR HARE.

6. **Scientific Method, with Exercises in Analysis.** Seniors and Juniors. Second term, five hours.—PROFESSOR HARE.

7. **Argumentation.** Baker's *Principles of Argumentation*. Briefs, forensics, and oral discussion. Third term. (Rhetoric, 3.) PROFESSOR PHILLIPS.

8. **History of Philosophy.** Lectures. Required of Juniors. Second term, two hours.

9. **Greek Philosophy** (Greek, 10). Elective to Seniors and Juniors.—PROFESSOR HAMBLIN.

10. **Roman Philosophy** (Latin, 16). Elective to Seniors and Juniors.—PROFESSOR ROCKWOOD.

11. **Modern Philosophy,** Weber. Lectures and Reading. Seniors and Juniors. Third term, five hours.

12. **Ethics.** Required of Juniors. Second term, four hours.

13. **Social Ethics.** Lectures. Required of Seniors. First term, one hour.

14. **Political Ethics.** Lectures. Required of Seniors. Second term, one hour.

15. **Practical Ethics.** Lectures.—DR. WHITMAN.

16. **Philosophy of Religion.** Required of Juniors. Third term, five hours.

17. **Evidences of Christianity.** Elective to Seniors. Second term, five hours.—PROFESSOR HARE.

18. **Bible Study.** Lectures on Biblical Themes, by the President. Sundays, 9.30 to 10.15.

EDUCATION.

19. **History of Education.** A general sketch of educational Theory and Practice in Ancient and Modern times. Lectures. Required of Juniors. Third term, one hour.—PROFESSOR EDWARDS.

20. **Psychology of Education.** Based on Harris' Psychologic Foundations of Education. Elective to Seniors and Juniors. Second term, five hours.—PROFESSOR EDWARDS.

21. **Comparative and Child Psychology.** Text-book, reports. Elective to Seniors and Juniors. Second term, five hours.—PROFESSOR DAVIS.

22. **Philosophy of Education.** Based on Horne's Philosophy of Education. Elective to Juniors and Seniors. Third term, five hours.—PROFESSOR EDWARDS.

23. **School Administration.** High School organization, function and management; discussion of methods; survey of College Entrance Requirements. First term, five hours.—PROFESSOR EDWARDS.

24. **Teachers' Course in American History.** Methods of teaching History with special reference to the work of secondary schools. Second term, two hours.—PROFESSOR COLESTOCK.

25. **Teachers' Course in Greek.** The Anabasis and Iliad are used as text. The preparatory work is reviewed, and suggestions made regarding methods of teachings. Some informal lectures are also given regarding the first year's work in Greek. First term, five hours. Seniors and Juniors.—PROFESSOR HAMBLIN.

26. **Teachers' Course in Latin.** Special topics in grammar, with practical exercises in Cæsar, Cicero, Vergil. Third term, five hours. Seniors and Juniors.—PROFESSOR ROCKWOOD.

27. **Teachers' Course in English.** Designed to familiarize the student with the authors required for entrance to college.—PROFESSOR PERRINE.

28. **Teachers' Course in Mathematics.** Mathematics as developed in history and as used in education. (a) Arithmetic: Its culture value, utility, present status in the schools: reforms in arithmetical teaching. (b) Algebra: Its growth during the last three centuries, typical parts (ethical value). (c) Geometry: Its basis, historical position, methods, recent geometry.—PROFESSOR BARTOL.

CERTIFICATES.

The courses in education and methods of teaching, including Child Psychology, the History, the Psychology, and the Philosophy of Education, are helpful to those intending to teach. Students who take not less than eight of these courses will be entitled to a certificate for the work done in addition to the diploma of the Course in which they graduate.

REGISTER OF TEACHERS.

In order to aid Boards of Control in securing suitable teachers, there is kept a registry of graduates of Bucknell University who may wish to engage in teaching. Alumni and friends of the College will render a service if they will inform the President of vacancies.

II. DEPARTMENT OF LAW.

HAROLD MURRAY MCCLURE, A. M.,
PRESIDENT JUDGE OF THE SEVENTEENTH JUDICIAL DISTRICT,
LECTURER ON CONTRACTS AND PARTNERSHIP.

FREDERIC EVANS BOWER, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON EVIDENCE AND EQUITY.

ALBERT WILLIAM JOHNSON, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON REAL AND PERSONAL PROPERTY.

The Bucknell College of Liberal Arts offers in its courses for the degrees in Arts and Science a number of subjects specially bearing upon the study of law. Students prepared for college and having taken one year's work in liberal studies, will be admitted to the studies in Law. The instruction is by text-book, lecture, and study of cases. The texts of "Leading Cases" have been placed in the library for the use of students. A certificate for the work done is given by the department, in addition to the Diploma of the College. But this certificate is not given for any legal subject in which the student's standing is below nine; nor to any student whose general average is below nine. The law studies are counted towards the degree in Liberal Arts, to the amount of one year's work. Opportunity is given for the *Review* of the *Latin, History* and *Literature* required in the Preliminary Examination for registration as students of Law in Pennsylvania.

1. **Elementary Law.** Robinson's Elementary Law. Third term. Sophomore year.—PROFESSOR COLESTOCK.

2. **Blackstone's Commentaries.** B. I, III, IV. One hour, Junior year, three terms.—PROFESSOR COLESTOCK.

3. **Real Property.** Blackstone B. II, and Select Cases, Lectures. First term, Junior year.—MR. JOHNSON.

4. **Personal Property.** Text-book, Select Cases, Lectures. Second term, Junior year.—MR. JOHNSON.

5. **Contracts.** Text-book, Select Cases, Lectures. First term, Senior year.—JUDGE MCCLURE.

6. **Equity.** Text-book, Select Cases, Lectures. Third term, Junior year.—MR. BOWER.

7. **Evidence.** Text-book, Select Cases, Lectures. Third term, Senior year.—Mr. Bower.

8. **Partnership.** Text-book, Leading Cases, Lectures. Second term, Senior year.—Judge McClure.

9. **Principles of International Law.** Fall term, Seniors and Juniors.—Professor Heim.

10. **Roman Law.** Third term, Seniors and Juniors.—Professor Rockwood.

11. **American Civics.** A study of the frame of Federal and State Government.—Professor Colestock.

12. **The Constitution of Pennsylvania.** Review of the principal decisions of the Supreme Court interpreting the provisions of the Constitution.—Professor Heim.

13. **American Constitutional Law.** Third term, Seniors and Juniors.—Professor Hamblin.

14. **Constitutional Limitations.** Cooley's Constitutional Limitations and cases.—Professor Heim.

15. **Comparative Constitutional Law.** Second term, Seniors and Juniors. A comparison of the Constitutions of England, France, Germany, Switzerland, and the United States.—Professor Heim.

16. **Moot courts** are held in which an attorney-at-law and a student sit as judges, and students, deputed to represent the respective sides, present their arguments. The presiding student writes the opinion of the court.

III. DEPARTMENT OF ECONOMICAL AND POLITICAL SCIENCE.

Ephraim M. Heim, ph. d., professor.

1. **Economics, I.** General course, devoted chiefly to problems of Production and Distribution.

2. **Economics, II.** Money and Banking. Prerequisite, Course I.

3. **Economics, III.** Public Finance. Financial Administration, Taxation and Public Debts. Alternating with Course II. Prerequisite, Course I.

4. **Corporate Finance and Commercial Law.** Organization and Management of Corporations. Corporation Finance. Form and Nature of Securities and Commercial Paper. Funding Operations Accounting and Auditing. Nature and Operations of Special Groups of Corporations, such as Public Service Companies, Financial Institutions, Insurance, etc.

5. **Transportation and Commerce.** Development of Foreign and Inland Commerce and Transportation. Organization and Methods of Railway Transportation. Theory of Rates, and Methods of State Control. Ocean Transportation, Shipping, and Navigation Acts. Commercial Geography.

6. **Industrial History of United States.** Development of Business Organization. Evolution of Types of Industry. Changes in Land Tenure; in the Distribution and Marketing of Products; in Forms of Exchange; in Insurance; in Organization of Labor Force; in Legislative Policy. Race Elements in American Industry.

7. **Economics.** Two hours a week. One of the following subjects will be studied: (1) English Economic History; (2) Socialism; (3) Labor Legislation.

8. **American Civics and Parliamentary Law.** A study of the American frame of Federal and State Government; and of Parliamentary rules and usages.—PROFESSOR COLESTOCK.

9. **American Constitutional Law.** Cooley's Elements of Constitutional Law. A study of the law of the Federal Constitution. —PROFESSOR HAMBLIN.

10. **Constitutional Limitations.** The Constitutional Law of the American Commonwealth. The sphere of Civil Rights in relation of the exercise of governmental power through the criminal law, the police power, the taxing power, and the power of eminent domain. First term; five hours.

11. **Comparative Politics.** A comparative study of the Constitutions of England, France, Germany, Switzerland, and the United States. Second term; five hours.

12. **Municipal Government.** Organization of City Government. Problems of Administration, Municipal Functions. Relation to the State. Second term; five hours. Seniors and Juniors.

13. **International Law.** First term; five hours. Seniors and Juniors.

14. **Political Parties and Party Government.** Origin and Growth of Party Government in the United States. Basis of Party Division. Rise and Decline of American Parties. Organization and Machinery of Party Government. European Parties. Lectures, one hour a week, throughout the year. Required in Jurisprudence Course.

15. **Political Science.** Minor Course, two hours. One of the following will be given: (1) Elements of Political Science; (2) Administrative Law.

16. **American Diplomacy.** Minor Course. Two hours.

IV. DEPARTMENT OF SOCIOLOGY.

WILLIAM EMMET MARTIN, A. M., PROFESSOR.

1. **Anthropology, Descriptive and Physical.** Elective to Sophomores. Third term, five hours.

2. **Sociology, Principles and Theory.** Elective to Seniors and Juniors. First term, five hours.

3. **Charities and Reform.** Seniors and Juniors. Second term, one hour. Prerequisite Course 2.

4. **Municipal Sociology.** Seniors and Juniors. Second term, five hours.

5. **History of Art.** Lectures. Sophomores. Third term, one hour.

V. DEPARTMENT OF HISTORY.

HENRY THOMAS COLESTOCK, PH. D., PROFESSOR.

History is approached in the gradually unfolding life-story of the race.

1. **Oriental History.** A survey of the civilizations along the Nile and the Euphrates, including Egypt, Babylonia, Assyria, Phœnicia, and Persia, constituting an introduction to biblical and classical times. First term, five hours.

2. **Hebrew History and Literature.** Second term, five hours. —PROFESSOR PHILLIPS.

3. **New Testament History and Literature.** Third term, fiv hours.—PROFESSOR PHILLIPS.

4. **Greek Political and Constitutional History.** First tern five hours.—PROFESSOR HAMBLIN.

5. **Roman History.** Second term, five hours.—PROFESSO ROCKWOOD.

6. **Roman Private Life.** Second term, five hours.—PROFESSO BALLENTINE.

7. **Medieval Europe.** General survey of Western Europe, fron the fourth to the thirteenth century, with especial attention t the institutional life of the people and the progress of civilization First term, five hours.

8. **Modern Europe to 1789.** From the thirteenth century to the opening of the French Revolution. Considers especially the Renais sance, the Protestant Reformation, and conditions combining t produce the French Revolution. Second term, five hours.

9. **Modern Europe since 1789.** The French Revolution, the Napoleonic era, Unification in Germany and Italy. Progress i civilization, social and industrial conditions. Third term, five hours.

10. **History of England.** Political and industrial development of the English people from the earliest times. Second term, five hours.

11. **Constitutional History of England.** With especial refer ence to the growth and development of the present form of consti tutional government in England. Second term, five hours. T alternate with Course 10.

12. **American Colonial History.** European background o American colonization. Political, industrial, and constitutiona conditions in the English colonies. Causes and results of the Revolutionary War.

13. **American Constitutional History.** Origin of the Federa constitution. Growth of nationality. Conflict between nationalit and State sovereignty. Issues involving the interpretation of the constitution.

14. **Teachers' Course in American History.** General survey o American history, designed to meet the needs of those who expec to teach history in secondary schools. Minor course.

15. **The Far East.** Survey of present conditions, social and constitutional, in Japan and China. Minor course.

16. **Historical Biography.** Detailed study of one or more important historical characters.

17. **Present Conditions in Russia.** Minor course.

VII. THE GREEK LANGUAGE AND LITERATURE.

THOMAS FRANKLIN HAMBLIN, A. M., PROFESSOR.

There are four terms of required work in Greek in the Classical Course, and five in the Greek Philosophical Course; while Greek may be taken as an elective during the entire Junior and Senior years. Besides the Elective courses a number of Minor Courses are offered. In the Elective courses a year of poetry alternates with a year of prose. A course of lectures on the Greek poets is given to the Seniors, with collateral reading. A course of New Testament Greek, designed especially for candidates for the ministry and extending through the Senior year is given by Professor Phillips.

Courses: 1-5, required; 6-15, elective.

1. **Homer.** Odyssey, Books 5-8. Review of verb forms and syntax of verbs. Epic forms and styles. Word lists. Metre. First term, Freshman year.

2. **Lysias.** Six orations. Inflection and syntax of nouns. Prose composition. Attic oratory. Translation at sight and hearing. Second term, Freshman year.

3. **Plato.** Apology and selections. Special topics in Greek Syntax. Philosophy and influence of Socrates. The Sophists. Extracts from the Memorabilia at sight. Third term, Freshman year.

4. **Greek Political and Constitutional History.** Bury's History of Greece is used as a text-book. The class is also required to do collateral reading on important epochs. First term, Sophomore year.

5. **Demosthenes.** Olynthiacs and Philippics. History and Politics of the Macedonian period. Style of Demosthenes. Second term, Sophomore year.

6. **Æschylus and Sophocles,** Prometheus Bound and Œdipus Tyrannus. The drama, theatre, and metres. First term, Seniors and Juniors, in alternate years.

7. **Euripides and Aristophanes,** Medea and The Clouds. Greek Comedy. Religious influence of the poets. Influence of the Classical on the Modern Drama. Second term, Seniors and Juniors, in alternate years.

8. **Greek Literature in English.** A course especially designed for students in the Philosophical or Scientific Courses, that they may become acquainted with some of the Greek masterpieces. The best translations will be studied and explained, and informal lectures will be given on various phases of Greek Literature. Third term, Senior and Junior years.

9. **Demosthenes.** *De Corona.* The oratory of Demosthenes, from a literary and political point of view. Æschines against Ctesiphon at sight. Second term, Seniors and Juniors, alternating with 6.

10. **Plato.** The Phaedo. Greek Philosophy. The influence of Plato. Third term, Seniors and Juniors; alternating with 7.

11. **New Testament Greek.** The Gospel according to Luke. Hellenistic Greek. Second and third terms, Freshman year; one hour a week.

12-14. **New Testament Greek.** Translation of the synoptic Gospels; interpretation; Burton's *Moods and Tenses*; characteristics of Hellenistic Greek. Designed for students desiring a linguistic and historical foundation for the interpretation of the New Testament. Three terms. Elective to Seniors.—PROFESSOR PHILLIPS.

15. **Teachers' Course in Greek.** The Anabasis and Iliad are used as text-books. Thus the Preparatory work may be reviewed, and suggestions received regarding the methods of teaching. Some informal lectures are also given regarding the first year's work in Greek. First term, Seniors and Juniors.

16. **Xenophon.** The Symposium and Œconomicus. Sophomores and Freshmen. Winter terms in alternate years, one hour.

17. **Homer and Lucian.** Selections from each in alternate years. Sophomores and Freshmen. Third term, one hour.

18. **Xenophon and Æschines.** The Memorabilia and the oration against Ctesiphon, in alternate years. Seniors and Juniors, first term, one hour.

19. **Sophocles and the Lyric Poets.** Antigone and selections from the Lyric Poets in alternate years. Seniors and Juniors, second term, one hour.

VII. THE LATIN LANGUAGE AND LITERATURE.

FRANK ERNEST ROCKWOOD, LL. D., PROFESSOR.
FLOYD GEORGE BALLENTINE, PH. D., ASSISTANT PROFESSOR.

There are four terms of required work in Latin and eleven of elective in the Classical and Latin Philosophical Courses. Special courses, subject to change from time to time, are also offered.

A. Candidates for the Degree of Bachelor of Science take Latin daily during the Freshman year. This course is intended for students who have passed only in the General Requirements in Latin, for admission. The work consists in the study of *Cicero (selected speeches)* and *Vergil*, or *Livy*, and *Prose Composition*.

B. The following courses are designed for students in the Classical and Philosophical Courses, but are also open as electives to students in the Science Course who may be qualified to take them:

Courses: 1-4, required; 5-15, elective.

1. **Cicero.** *De Senectute.* Livy: Book I. Review of special topics in Latin grammar. Oral and written exercises in Prose Composition, based upon the text. Translation at sight and at hearing. First term, Freshman year, two divisions.

2. **Livy:** Books XXI and XXII. Latin Prose Composition, based upon the text. Roman history: Special chapters in Liddell. Second term, Freshman year, two divisions.

3. **Velleius:** Roman History. Pliny. Selections from the Epistles. Translation at sight. Latin Prose Composition, based upon the text. Third term, Freshman year, two divisions.

4. **Horace:** Selections from the Odes, Satires, and Epistles. Prosody; Historical Outlines of the Latin Language and Literature; Wilkins' Primer; Lectures. First term, Sophomore year, two divisions.

5. **Roman History:** The work is based on Allen's Rise and Fall of Rome. Mommsen, Bury, and Gibbon are used for supplementary reading. Second term, Sophomore year.

6. **Quintilian:** Books X and XII. Roman Literature. Second term; open to those who have taken course 4; alternating with 12.

7. **Juvenal:** Selected Satires. Third term; open to those who have taken course 4.

8. **Plautus:** Selected Plays. First term; open to Seniors and Juniors; alternating with 11.

9. **Terence:** Andria, Hauton Timorumenos, and Phormio; lectures on such subjects as the life and influence of Terence, the Roman theatre, the production of comedy, etc. Second term; open to Seniors and Juniors; alternating with 14.

10. **Latin Inscriptions:** Allen's Remnants of Early Latin; Egbert's Manual. Third term; open to Seniors and Juniors; alternating with 13.

11. **Tacitus:** Annals. Translation at sight. Roman History. First term; open to Seniors and Juniors; alternating with 8.

12. **Latin Poets:** Crowell's Selections. Roman Literature. Second term; open to those who have taken course 4; alternating with 6.

13. **Teachers' Course in Latin:** Special topics in grammar with practical exercises in Cæsar, Cicero, Vergil. Third term; open to Seniors and Juniors; alternating with 10.

14. **Roman Private Life:** Lectures; required reading; one report, involving elementary investigation. Second term; open to Seniors and Juniors; alternating with 9.

15. **Roman Law:** Morey's Roman Law; Sandar's Institutes of Justinian; lectures and reports. Third term; open to Seniors; required in the Course of Jurisprudence.

16. **Roman Philosophy:** Cicero and Seneca, one hour.

17. **Christian Writers:** Tertullian and Latin Hymns, one hour.

18. **Classical Philology:** Introductory Course, one hour.

VIII. THE ENGLISH LANGUAGE AND LITERATURE.

ENOCH PERRINE, LITT. D., PROFESSOR.

1. **English Literature**, introductory course. Designed to give a general knowledge of the history of English Literature from the Elizabethan to the Victorian periods, inclusive. Required, second term, Sophomore.

2. **Anglo-Saxon:** Old English Language and Literature, with special elective in Beowulf. Elective for those who have taken course 1 and the required work in German.

3. **Chaucer:** Middle English Language and Literature, with readings in Langland and Gower, and in Lounsbury's The English Language. Elective for those who have taken course 1 and the required work in French.

4. **The English Drama:** its development from the earliest times to Shakspere. Elective for those who have taken Courses 1 and 7, and alternating with course 9.

5. **Shakspere:** His mind and art. Critical study of **A Midsummer Night's Dream, Hamlet, and Tempest.** Senior elective.

6. **The Georgian Period of English Literature:** Elective for those who have taken course 1, and alternating with course 7.

7. **English Literature from 1830.** Elective for those who have taken course 1, and alternating with course 6.

8. **American Literature,** with special reference to the national period. Elective for those who have taken course 1.

9. **Principles of Literary Criticism.** Elective for those who have taken courses 1, 7, and 8, and alternating with course 4.

10. **Periods of English Literature.** Special work is given in different periods of English Literature to those who have passed with credit in courses 1, 4, 7, and 8.

11. **English Oratory,** a study of the oration as a literary form. Elective for those who have taken course 1 and the required courses in Rhetoric.

12. **Journalism,** a study and practice of the various forms illustrated in the metropolitan "dailies," together with proof-reading, study of the functions of editors, and readings in the history of great American journalists and journals. Elective for those who have taken course 1 and the required courses in Rhetoric.

13. **Foreign Literature in English.** Lectures on some of the world's masterpieces are given to the Seniors on Monday mornings during the third term.

14. **Teachers' Course in English.** Designed to familiarize the student with those authors, both in the way of theory and practice, that are required for entrance to college. Two hours.

15. Le Public et les Hommes de Lettres en Angleterre, 1660-1744; Beljame; or Ecrivains Modernes de L'Angleterre, Montegut.

16. **Shakspere:** Fünf Vorlesungen von Bernhard ten Brink.

17. **Studies in the Poetry of Revolt:** Wordsworth, Coleridge, Shelley, Byron. Elective to those who have taken courses 1 and 6.

IX. RHETORIC AND ORATORY.

LLEWELLYN PHILLIPS, A. M., PROFESSOR.
BROMLEY SMITH, A. M., INSTRUCTOR IN RHETORIC AND ORATORY.
CHARLES FRANCIS POTTER, ASSISTANT IN RHETORIC.

A.—COURSES IN RHETORIC AND COMPOSITION.

1. **Rhetoric and English Composition:** Introductory course. Themes, weekly recitations, and consultations. Three terms; one hour. Required of Freshmen.

Students who show good preparation are admitted to a special section, in which more advanced work is given.

2. **English Composition:** Daily themes, recitations, and consultations. First term, five hours. Required of Sophomores.

3. **Argumentation:** Baker's *Principles of Argumentation.* Briefs, forensics and oral discussion. Third term. Open to students who have passed in 1 and 2.

4. **English Composition:** *Advanced Course.* Wendell's *English Composition.* Daily and fortnightly themes, recitations, and consultations. Second term; five hours. Open to Seniors and Juniors.

5. **Theses.** Every member of the Junior and the Senior Class writes a thesis. The Junior theses contains not less than two thousand words, the Senior theses not less than three thousand words. The subjects are chosen in conjunction with the heads of the departments to which the subjects belong. Upon these theses are based the Junior Exhibition orations and the Commencement orations. The subjects of the theses are presented to the Professor of Rhetoric before October 22, and an outline of each thesis is presented to the Professor of Rhetoric at the close of the first term. The completed theses are handed in before March 1. They are examined first by the heads of the departments to which the subjects belong and afterwards by the Professor of Rhetoric. The subjects of the Senior theses are published in the annual Catalogue.

6. **English Prose.** Studies in Structure. Two hours.

7. **English Prose.** Studies in the Principles of style. Two hours.

8. **Teachers' Course.** The theory and practice of Rhetoric and Composition. Carpenter, Baker, and Scott. The teaching of English. Five hours. Open to students who have attained an average grade of nine in courses 1, 2, and 4.

9. **The Theory of Rhetoric.** A study of the laws of thought.

10. **Movements of Thought in the Nineteenth Century.** Methods of investigation; theses. Open to Seniors.

B.—COURSES IN ORATORY.

The aim is to train the student to speak effectively in the pulpit or upon the platform or at the bar. All instruction is based upon the principle that impression precedes and determines expression. Each student receives individual attention during the first half of the course in elocution, during the latter half in oratory. Special attention is given to debate. Each student is urged to take an active part in the work of the Literary Societies.

The ultimate object of the *physical culture* is to secure a good presence and the ability on the part of the voice and body to interpret correctly the conceptions of the mind.

FRESHMEN.

1. **Physical Culture.** Exercises for securing correct position, and harmony of movements and attitudes; exercises for breath control and vocal culture and for grace in gesture.

2. **Public Speaking.** Study of the fundamentals of public speaking; delivery of short extracts from masterpieces of oratory, aiming to secure directness, earnestness, and dignity of address. Required, first and second terms, one hour.

3. **Public Speaking.** Delivery of complete orations illustrating and applying the principles studied in the first and second terms. A prize is offered to the young man and one to the young woman of the Freshman Class who excels in the delivery of these orations. Required, third term.

SOPHOMORES.

4. **Public Speaking.** Close analysis and study of the details of public speaking; study of the various styles of delivery and of the different forms of discourse. Delivery of selected extracts from

masterpiece illustrating each. Extemporaneous speaking. Reviews and continuation of the physical culture of course 1. Required, first term, one hour.

5. **Public Speaking.** Study of narration. Description and argumentation. Delivery of selections illustrating each. Preparation and delivery of original narrations and descriptions. Extemporaneous speaking. Required, second term, one hour.

6. **Public Speaking.** Delivery of complete argumentative selections. Preparation for and participation in debate. A prize is awarded to the young man of the Sophomore Class who shall excel in the delivery of an assigned selection in argumentation. A prize is awarded to the young woman of the Sophomore Class who shall excel in the delivery of an assigned selection in narration. Third term.

7. **Public Address.** The various forms of addressing the public are studied. Beginning with open letters and editorials, the class advances to presentations, acceptances, nominations, dedications, inaugural addresses, institute talks, banquet toasts, eulogies, commemorative orations, etc. Each student prepares and delivers before his class specimens from the above forms. Third term, five hours; Sophomores.

8. **Practical Oratory.** Briefs and notes are made the basis for extemporaneous addresses; Congressional speeches and modern occasional orations are outlined and studied. The application of rhetorical and of oratorical principles in their connection with logic is considered. Special work in line with the student's intended profession is given. A limited field, historical, economic, or otherwise, is assigned to each student for development. When his orations have been examined and corrected, the student delivers them before the class. First term, five hours; Seniors and Juniors.

9. **Interpretative Reading.** The use of the voice in bringing out the meaning of the best literature is obtained by practice in class. Attention is given to the pedagogical and psychological aspects of reading. Second term, five hours; Seniors and Juniors.

JUNIORS.

10. **Prize Contest.** A prize contest in Oratory is held in the third term by Juniors, appointed on the ground of superiority in composition and elocution as shown during the preceding terms of the college course.

11. **Prize and Honor Debate.** During the year there are three debates by Juniors, the last of which is a prize and honor debate.

12. **Oral Debates.** Briefs, Debates, and Criticism. The Professor of Economic and Political Science coöperates in this course. First term; one hour.

The contestants for the Junior Prize are selected from the students who take this course.

SENIORS.

13. **Honors in Debating.** During the year an elective course in debating is offered to Seniors. The last debate is public.

14. **Prize in Oratory.** A prize is offered for the best oration of those delivered by the Senior orators at Commencement, regard being had equally to subject-matter, style, and delivery.

X. DEPARTMENT OF MODERN LANGUAGES.

GUIDO CARL LEO RIEMER, A. M. PH. D., PROFESSOR.
ELYSEE AVIRAGNET, A. M., PROFESSOR OF THE ROMAN LANGUAGES.
PAUL EMIL WEITHAASE, A. M., ASSISTANT PROFESSOR OF GERMAN.
CHARLES FREEMAN NEVINS, A. B., INSTRUCTOR IN FRENCH.

A.—GERMAN.

1a. **Elementary Course.** Grammar; German Prose; practice in writing German. Two terms.

1b. **Elementary Course.** Grammar; German prose; practice in writing German. Required course, Sophomores of the Classical Course. Third term, five hours.

2. **German Prose.** Grammar; practice in writing German. Required course, Freshmen of the Scientific Course; elective course for those who have taken 1a or 1b.

3. **German Prose and Poetry.** Grammar; practice in writing German. Required course, Freshmen of the Scientific Course; elective course for those who have taken course 2.

4. **Historical and Critical German Prose.** Practice in writing German. Elective course for those who have taken course 3.

5. **Modern German Novelists.** Practice in writing German. Elective course for those who have taken course 4.

6. **Schiller.** Practice in writing German. Elective course, for those who have taken course 4.

7. **Goethe.** Practice in writing German; lectures. Elective course, for those who have taken course 4.

8. **Goethe.** Practice in writing German; lectures. Elective course, for those who have taken courses 5-7.

9. **Goethe.** Shorter Poems, Dichtung und Wahrheit, Faust I; lectures. Elective course for those who have taken course 8.

10. **Lessing.** Practice in writing German; lectures. Elective course for those who have taken course 9.

11. **Kleist, Grillparzer and Heine.** Practice in writing German; lectures. Course 11 alternates with course 8.

12. **Ludwig, Hebbel and Uhland.** Practice in writing German; lectures. Course 12 alternates with course 9.

13. **Middle High German.** Practice in writing German; lectures. Course 13 alternates with course 10.

14. **Lotze.** Grundzüge der Psychologie. (Philosophy 3).

15. **Shakspere: Fünf Vorlesungen.** (English 16.)

16. **German Political Science.** (Economics 16.)

17. **German Biological Science.** (Biology 21.)

18. **German Chemical Science.** (Chemistry 16.)

B.—FRENCH.

1a. **Elementary Course.** Grammar; French prose; practice in writing French. Required course, Freshmen of the Scientific and Philosophical Courses.

1b. **Elementary Course.** Grammar; French prose; practice in writing French. Required course, Juniors of the Classical Course.

2. **French Prose.** Grammar; practice in writing French. Elective course for those who have taken course 1a or 1b.

3. **French Prose and Poetry.** Grammar; practice in writing French. Elective course for those who have taken course 2.

4. **Historical and Critical French Prose.** Practice in writing French. Elective course for those who have taken course 3.

5. **Authors of the XIX Century.** Practice in writing French. Elective course for those who have taken course 4.

6. **Corneille and Racine.** Practice in writing French; lectures. Elective course for those who have taken course 5.

7. **Molière.** Practice in writing French; lectures. Elective course for those who have taken course 6.

8. **Authors of the XVIII Century.** Practice in writing French; lectures. Elective course for those who have taken course 7.

9. **A View of French Literature.** Rapid reading; practice in writing French; lectures. Elective course for those who have taken course 8.

10. **Conversational French.** A course in French conversation is given by Dr. Aviragnet to students who have made sufficient progress in the language.

11. **French Prose Composition.** In addition to the practice in writing French required in all courses, Dr. Aviragnet gives annually a special course.

12. **Publique et les Hommes de Lettres, or Ecrivains Modernes de l'Angleterre.** (English 15.)

C.—SPANISH.

DR. AVIRAGNET.

1. **Elementary Spanish.** Grammar. Conversation. Translation of easy prose. Elective course, for Seniors and Juniors. First term, five hours.

2 and 3. **Spanish Prose.** Translation, Composition, Conversation. Elective course, for Seniors and Juniors. Second and third terms, five hours.

XI. DEPARTMENT OF MATHEMATICS.

WILLIAM CYRUS BARTOL, PH. D., PROFESSOR.
JOSEPH MEIXELL WOLFE, A. M., ASSISTANT PROFESSOR.
CHARLES ARTHUR LINDEMANN, A. M., ASSISTANT PROFESSOR.
FRANK MORTON SIMPSON, SC. M., ASSISTANT PROFESSOR.
————————, ASSISTANT PROFESSOR IN ELECTRO-TECHNICS.
FRANK EUGENE BURPEE, A. M., INSTRUCTOR.
HARRY C. THOMPSON, ASSISTANT.

1. **Solid Geometry.** The course includes the geometry of solids with plane surfaces, the cone, the cylinder, the sphere, the

spherical triangle, and conic sections. Freshman year, first term, five hours.

2. **Algebra.** The topics are ratio, proportion, variation, progressions, theory and development of functions, logarithms, differentiation of algebraic functions, indeterminate equations, series, higher equations. Freshman year, first or second term, five hours.

3. **Determinants and Advanced Algebra.** Minor course, open to Freshmen of the Engineering course and to Sophomores of the Arts and Science courses. Second term, two hours.

4. **Trigonometry.** The course includes plane trigonometry with application to problems in mensuration and surveying, and spherical trigonometry with applications to problems in astronomy. Freshman year, second or third term, five hours.

5. **Analytical Geometry.** The student is taken through the elementary properties of the right line, the circle, and the conic sections, and higher plane curves. The course is intended to give a clear conception of the methods of Cartesian analysis rather than an extensive knowledge of its results. Freshman year, third term, five hours, or Sophomore year, first term, five hours.

6. **Higher Analytical Geometry.** The course covers the geometry of three dimensions surfaces of revolution and higher plane curves; alternating with course 14. Junior year, second term, five hours.

7. **Differential Calculus.** The course includes higher derivatives and functions of several variables, infinite series, maxima and minima. Prerequisite, course 5. Sophomore year, second term, five hours.

8. **Integral Calculus.** The course includes the simpler methods of integration, rectification and quadrature of plane curves, surfaces and solids of revolutions, and applications to problems in Physics and Mechanics. Sophomore year, third term, five hours.

9. **Differential Equations.** A course with mechanical applications. Junior year, second term, five hours.

10. **Descriptive Astronomy.** The aim of the course is to present in concise form a synopsis of astronomical knowledge to date. Lectures. Sophomore year, Arts and Science courses, second term, one hour.

11. **General Astronomy.** The subject is taught by text-book, with illustrations in the observatory. The students have free use of the ten-inch equatorial telescope. Third term, five hours.

12. **Geodetic Astronomy.** The course includes the use of the astronomer's transit and micrometer; observations for Time; conversion of Time; Latitude, Longitude, Azimuth and their geodetic determination; figure and dimensions of the Earth; use of the American Ephemeris; practice in the Observatory. Prerequisites, a course in Surveying and one in the Elements of Astronomy. Seniors, first term, five hours.

13. **Plane Surveying.** *Land Surveying*, laying-out, subdividing, and finding the area of given tracts of land. *Topographical Surveying*, by chain and compass, by plane table, and by transit instrument and stadia rods. Sophomore year, first term, five hours

14. **Geodetic Surveying.** Minor course. Sophomore year. Civil Engineering, first and second terms, one hour.

15. **Railroad Surveying.** Instruction is given in the theory of simple and compound curves, wyes, switches, and turn-outs. A corps is organized, which makes a preliminary survey of a cross-country railroad. The topography of this is taken and plotted; elevation of centre line taken; grade determined; degree of curves fixed, and paper location made. Centre line of permanent survey is now located; slope stake set; earthwork calculated; specifications drawn up, and estimates made of the line surveyed. Sophomore year, Civil Engineering, third term, five hours.

16. **Mine Surveying.** Problems in Mine Surveying, such as plumbing the shaft, locating the bore holes, lining up chambers, driving tunnels, are worked out in class and with the instruments. Plotting of notes forms a part of the work, and a trip of inspection is made to some nearby workings. Senior year, Civil Engineering, third term, five hours for six weeks.

17. **City Surveying.** Town sites are located and plotted; permanent reference points and bench marks established; sewers located and calculated; curb and property lines determined. Senior year, Civil Engineering, third term, five hours for six weeks.

18. **Descriptive Geometry.** A study of the representation of lines, plane surfaces, solids, and sections of solids; the projection of points, lines, and surfaces; practical problems. Engineering Courses, Sophomore year, second term, five hours.

19. **Linear Perspective.** A course of twelve lectures designed to familiarize the student with the principles of perspective, and to give him an insight into their manifold applications. Arts and Science Courses, Sophomore year, first term, one hour.

20-22. **Courses in Drawing.** Extending through the Freshman year of the course in Civil and Electrical Engineering, and required of all candidates for the first degree in Civil or Electrical Engineering. Ten hours a week.

(1.) **Linear and Freehand.** An elementary course in drawing to give the student facility in the use of instruments; Geometrical problems; cross-sectioning; shading; isometric drawing; sketching from models.

(2.) **Lettering.** The form and proportion of standard letters; structural details; methods of spacing; laying out titles.

(3.) **Architectural Drawing.** Plans, elevations, and perspective drawings; copying of standards.

(4). **Pen and Color Topography.** Topographical signs; methods of hill shading; surface forms by contours and in color and pencil; enlarging and reducing maps, rendering in water colors, sepia, and charcoal.

(5.) **Tracing and Blue Printing.** Photographic methods of the Architect and Engineer.

23. **Precise Surveying.** Given in connection with the courses in surveying. Sophomores, second term, one hour.

24. **Machine Design.** Problems in drawing and designing. Second term, Sophomore Engineering, one hour.

25. **Architectural Design.** The design of brick and stone structures. including the preparation of plans and specifications. Junior Engineering, one hour, first and second terms.

26-28. **General Physics.** (Three terms.) These courses in Physics are required in the Engineering Courses and are elective in the other courses. Instruction is given in the Laboratory supplemented by recitations and lectures.

(a) Laboratory. The Laboratory instruction extends throughout the year and includes experiments illustrating the general laws in all branches of physics. The experiments are largely quantitative and use is made of instruments of precision. The work is entirely individual. The student is required to take notes in the

Laboratory, elaborating them outside and presenting for criticism from time to time.

(b) Recitations. Recitations supplement the laboratory work. The study of a text covering the theoretical and mathematical side of the subject is required.

(c) Lectures. Frequent lectures are given in which use is made of lecture-room apparatus. All important phenomena are illustrated and experimental demonstrations of the principal laws are presented.

26. **Mechanics and Heat.** First term, Junior year.

27. **Electricity and Magnetism.** Second term, Junior year.

28. **Acoustics and Optics.** Third term, Junior year.

29-31. **Advanced Physics.** The course extends throughout the year and assumes that the student has completed courses 26-28 or the equivalent. Instruction is given chiefly in the Laboratory. Students are instructed in the use of instruments of precision employed in Mechanics, Heat, Light, Electricity, and Magnetism. The work in the Laboratory is supplemented by written reports in which both general and theoretical results obtained are discussed. These reports afford the basis for criticism of the work. The work must be pursued in such order as the appointments of the Laboratory may require.

The subject of Electricity and Magnetism will occupy about two-thirds of the year. For this work the laboratory is supplied with instruments of precision, such as the Thomson Reflecting Astatic Galvanometer, Helmholtz, D'Arsonval, and Ballistic Galvanometers, Standard Cells, Condensers, and Resistance, Weston instruments, etc. Two 50-kilowatt, Thomson-Ryan Dynamos, 125 volts, at the University lighting plant and a 2-kilowatt 110-volt machine are available for study. The equipment is increased as the need requires.

(1) **Mechanics.** Problems of engineering will receive special attention. The work will include experiments in statics, principle of moments, calibration of capillary tubes, testing levels, etc.

(2) **Heat.** Calorimetry and Thermo-dynamics of the steam engine will form the basis of the work.

(3) **Light.** The student will be instructed in the use of the spectrometer, spectroscope, interferometer, and the photometer.

(4) **Electricity and Magnetism.**

(a) Measurement of Current, Electro-motive Force, and Resistance. Determination of constants of galvanometers.

(b) Study of Primary and Secondary Batteries and Standard Cells.

(c) Tests, and calibration of commercial instruments.

(d) Experimental study of dynamo machines, including tests of efficiency.

(e) The Transmission of Intelligence.

32. **Strength of Materials.** Tensile, compressive, shearing, and cross-bending stresses are considered; methods of testing materials of construction are outlined, and problems in the design of wooden and steel beams, girders, footings, beams, roof trusses, etc., are worked out. First term. Junior Engineering, five hours.

33. **Masonry and Foundations.** The materials of masonry construction and their preparation and use receive attention; this is followed by a study of foundations—ordinary, pile, and under water. Under masonry structures are treated: masonry dams, retaining walls, bridge abutments and piers, culverts, and masonry archs. Second term, Junior Civil Engineering, five hours.

34-36. **Bridges and Buildings.** The first term is devoted to Graphical Statics, problems being worked out daily in the drafting room. The work of the second term consists in the determination of stresses in framed structures by means of graphic and algebraic methods. The third term is spent in the calculation and designing of some framed structure and the preparation of the drawings for the same. Senior Civil Engineering, three terms, five hours.

37. **Roads and Pavements.** The economic location and design of streets and pavements are considered along with the questions of street drainage and foundations for roads and pavements. Comparisons are made between earth, gravel, broken stone, shell, plank, and burned clay roads, and also between asphalt, brick, stone block, and wooden block pavements. Equestrian roads, race tracks, bicycle paths, and sidewalks receive attention. First term, Junior Civil Engineering, five hours.

38. **Hydraulics and Hydraulic Motors.** This course includes the theory of Hydrostatics and Hydraulics, the flow of water over weirs, through orifices and tubes, and in pipes, canals, and rivers;

the measurement of water-power; water wheels and turbines. Senior Engineering, second term, four hours.

39. **Water Supply and Sanitary Engineering.** Under the head of the collection and storage of water are taken up quantity of water required, rainfall, flow of streams, storage and evaporation of water, supplying capacity of water sheds, springs, and wells. The flow of water in streams, pipes, and channels is discussed, as also the practical construction of water works. A study is made of the various methods of sewage disposal. Third term, Junior Engineering, five hours.

40. **Contracts.** In this course will be given the principles of Common Law as applied to contracts. Third term, Senior Engineering, one hour.

41. **Electrical Measurements.** Lectures, recitations, and laboratory work. Juniors, Electrical Engineering, first term, five hours.

42. **Direct Current Machinery.** Lectures, recitations, and laboratory work. Juniors, Electrical Engineering, second term, five hours.

43. **Alternating Current Generators, Transformers, and Motors.** Lectures, recitations, and laboratory work. Juniors, Electrical Engineering, third term, five hours.

44. **Design of Electrical Machinery.** Lectures, recitations, drawings, and shop-work. Seniors, Electrical Engineering, first and second terms, five hours.

45. **Generating Stations and Sub-stations, Distribution of Electricity, Storage Batteries.** Lectures, recitations, and laboratory work. Seniors, Electrical Engineering, first term, five hours.

46. **Telegraph, Telephone, Railway Signal and Related Apparatus.** Lectures, recitations, and laboratory work. Seniors, Electrical Engineering, second term, five hours.

47. **Electric Lighting, Construction, Wiring, and Economics.** Seniors, Electrical Engineering, third term, five hours.

48. **Electric Railways, Construction, Operation, and Economics.** Seniors, Electrical Engineering, third term, five hours.

49. **Boilers, Steam Engines, Valve Gears, and Governors.** Juniors, Electrical Engineering, third term, five hours.

50. **Machine Design, Machine Tools.** Lectures, recitations, drawing. Juniors, Electrical Engineeering, first and second terms, one hour.

51. **Gas, Air, and Oil Engines,** Juniors, Electrical Engineering, third term, one hour.

XII. DEPARTMENT OF CHEMISTRY.

WILLIAM GUNDY OWENS, A. M., PROFESSOR.
GEORGE STEPHEN TILLEY, A. M., INSTRUCTOR.
JOHN CLYDE HOSTETTER, ASSISTANT.

The courses in Chemistry are designed to give a comprehensive view of the field covered by chemical investigation and to train the student in the various methods of chemical research. The courses as a whole are offered to those who expect to teach chemistry or enter the testing or industrial laboratory. As chemistry is at the foundation of the natural sciences, the first courses are essential to the study of science and medicine, and are important for general culture.

1. **Descriptive Chemistry.** Text-book, lectures, and laboratory experiments. The properties, preparation, history, and uses of the non-metallic elements and their compounds. First term.

2. **Descriptive Chemistry.** Text-book, lectures, and laboratory experiments. The properties, preparation, history, and uses of the metallic elements and their compounds. Second term.

3. **Qualitative Analysis.** In the first part of the term chemical reactions are studied in the laboratory, class-room, and text-book, after which fifty compounds, mixtures, and industrial products are determined. Each student reports individually and is questioned on the methods of determination. Twelve hours laboratory work a week required. Third term, prerequisite courses 1 and 2.

4, 5, 6. **Quantitative Analysis.** This course, extending through the year, aims to acquaint the student with the methods of analysis used in different chemical determinations.

(1) In the first term, Gravimetric methods are studied and pure inorganic preparations made.

(2) In the second term, Volumetric methods are studied.

(3) In the third term, Fire and Gas analysis are taken up.

Chemical theories are studied throughout the year. Laboratory work, nine hours a week. Prerequisites, courses 1, 2, and 3.

7. **Organic Chemistry.** Prerequisites, courses 1, 2, and 3. First term, five hours a week. Laboratory work, six to eight hours a week.

Hydrocarbons of the methane, olefine, and acetylene series and their most important derivatives are studied. In the laboratory, after preliminary exercises to train in technique, each student makes a number of pure organic substances belonging to the compounds studied.

8. **Organic Chemistry** (Continued). Second term, five hours a week. Prerequisite, Course 7. Aromatic hydrocarbons and derivatives are studied. In the laboratory a number of substances are made, and practice in ultimate organic analysis is given. From six to eight hours a week should be devoted to laboratory work, at times convenient to the student.

9. **Organic Chemistry** (Continued). Third term, five hours a week. Laboratory work, six to eight hours a week. Polycyclic and heterocyclic compounds related both to oliphatic and aromatic compounds are studied. In the laboratory, syntheses and analyses of comparative difficulty are performed, and some study of organic reactions is made.

10. **Physical Chemistry.** First term, five hours a week. Laboratory work, six hours a week. Prerequisites, courses 1, 2, 3, 4, 5, 6, mechanics and physics.

A study is made, during the two terms of the courses, of gases and the gas laws; of the properties of liquids and solids so far as of interest to the chemist; of solutions; of balanced actions; the phase rule, and particular cases of homogeneous and heterogeneous equilibrium.

11. **Physical Chemistry.** Second term, five hours a week. Course 10 is continued and the theoretical part of electro-chemistry begun. Laboratory work, six hours a week. The laboratory work during the two terms will include the more important physico-chemical measurements, such as determination of heats of reaction, of specific gravities, of molecular weights, of velocities of reaction, and others.

12. **Physical Chemistry.** Third term, five hours a week. Laboratory work, six hours a week. Prerequisite, physical chemistry.

The theoretical consideration of electro-chemistry is continued and technical subjects are studied, including electrolytic analysis of metals and some electrosynthetic methods.

The laboratory work will be designed to illustrate the subjects studied and give practice in electro-chemical technique.

13. **Toxicology and Urinalysis.** Poisons and their separation from organic matter are studied during the first part of the term. During the second part analysis of urine and of food adulteration is studied. Laboratory work, ten hours a week. Prerequisites, courses 1, 2, and 3.

14. **Metallurgy.** The manufacture and properties of iron and steel are studied and the influence of carbon, silicon, phosphorus, sulphur and other elements. Laboratory work consists in determining these elements and studying the structure under the microscope. Laboratory work, eight hours a week. Prerequisites, courses 1, 2, and 3.

15. **Agricultural Chemistry.** The chemistry of plants and fertilizers is studied. Fertilizer and food analysis is practiced in the laboratory six hours a week. This course covers the legal requirements for teachers of Pennsylvania high schools. Prerequisites, courses 1, 2, and 3.

16. **German Chemical Literature.**—One hour a week, throughout the year. Prerequisite, at least two terms of German, and courses 1, 2, and 3 in chemistry.

Selections from standard German text-books and periodicals are read, and study is made of the derivation and formation of scientific words.

17. **Physical Chemistry.** Mathematical topics.

18. **Organic Research.**

19. **History of Chemistry.**

XIII. DEPARTMENT OF ORGANIC SCIENCE.

George G. Groff, M. D., LL. D., professor.
Nelson Fithian Davis, SC. D., professor of biology.
Pharez Gross Hess, A. B., instructor.

It is the constant aim in this department to teach how to interpret nature. The student is guided in his investigations by lectures and laboratory manuals.

Courses 1, 2, 4, 5, 6, 15, 17, 19, 20, and 22 are given by Professor Groff.

Courses 3, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, and 21 are given by Professor Davis.

1. **Animal Physiology.** The aim of this course is to acquaint the student with the elementary facts concerning the functions of the human body. The work consists of lectures and readings from text-books on Physiology. The course was intended for those who wish a general knowledge of Physiology.

2. **Neurology.** Recitations, lectures, and laboratory work. The course is intended to give the general anatomy and histology of the Nervous System such as is required for those preparing for Medicine. Prerequisite, course 1 and General Chemistry.

3. **Experimental Physiology.** Lectures and experiments to illustrate the functions of the organs of the animal body.

4. **Sanitary Science.** Lectures, one hour a week.

5. **Human Osteology and Comparative Anatomy.** Recitations and dissections. In this course the student makes a systematic study of the human skeleton. The structure of the composite bones is compared to those of other vertebrates.

6. **Human Anatomy.** Lectures, recitations and dissections. The student has an opportunity to make a complete dissection of the human body. The work is largely independent. Models and text-books are used as guides.

7. **Normal Histology.** Recitations and lectures, and laboratory work. In this course the student makes a thorough study of the microscopic structure of the cell and elementary tissues, followed by the study of the various organs of mammals. In the laboratory work the students prepare specimens by the various methods in fixing, hardening, staining and sectioning.

8. **Embryology.** Recitations, lectures, and laboratory work. This course is important because it gives a key to the interpretation of the structure and relationship of the parts of the animal body and because it investigates the development of the individual. It includes the early development of amphibians, birds and mammals.

9. **Biology.** Recitations and dissections. The aim of this course is to meet the needs of general education in this subject,

and at the same time makes clear the fundamental principles, scope, method, history, and subdivisions of Biology and its relation to other sciences.

10. **Invertebrate Zoölogy.** Recitations and dissections. This course succeeds the course in Biology. It takes up the study and dissection of representatives of the invertebrate groups, including their life, histories, habits and distribution.

11. **Vertebrate Zoölogy.** Recitations and dissections. This is a continuation of course 10. It completes a general survey of the animal kingdom, special attention being given by each student to dissections, anatomy, life histories, and habits of the various groups.

12. **Entomology.** Recitations and laboratory work. In this course each student makes a thorough study of the dissection, life history, and habits of insects representative of the different orders. Special attention is given to the economical importance and relation of insects to agriculture.

13. **Organic Evolution.** Minor course. Lectures and discussions. The evolution of the vertebrates is traced in detail and much time is given to the relation of evolution to religious thought.

14. **Heredity.** Minor course. The lectures and reports deal with the principal facts and problems of variation and heredity and are supplemented by collateral readings.

15. **Phænogamic Botany.** Recitations, lectures, and field work. This is a general course including the anatomy of the representative types and their relation to the environment; a study is made of the local flora.

16. **Cryptogamic Botany.** Recitations, lectures, and field work. This includes a general introduction to Botany, taking up the study of at least one plant from each of the groups, and working out their life histories. The laboratory work and lectures develop the subject from the evolutionary standpoint.

17. **Elements of Forestry.** A lecture course covering the factors that control and regulate the development of our forests.

18. **Bacteriology.** Recitations, lectures, and laboratory work. The laboratory work includes the practice of the essential bacteriological methods. Much time is given to the study of bacteria found in water and in milk.

19. **Mineralogy and Geology.** Recitations, lectures, and laboratory work. A general course intended to give the leading facts and principles of Geology and the more important events in the Geological history of the earth. The development of the North American continent is studied in detail.

20. **Economic Geology.** Recitations, lectures, and laboratory work.

21. **German Biological Literature.** Junior year, one hour.

MEDICAL PREPARATORY DEPARTMENT.

WILLIAM LEISER, M. D.,
LECTURER ON DIAGNOSIS

WEBER L. GERHART, M. D.,
LECTURER ON ANATOMY.

CHARLES ALEXANDER GUNDY, M. D.,
LECTURER ON SURGERY.

GEORGE G. GROFF, M. D., LL. D.,
PROFESSOR OF ANATOMY AND PHYSIOLOGY.

NELSON FITHIAN DAVIS, SC. D.,
PROFESSOR OF BIOLOGY.

WILLIAM GUNDY OWENS, A. M.,
PROFESSOR OF CHEMISTRY.

For the present Bucknell University does not offer a full course of medical study nor confer degrees in medicine; but offers the preparatory studies and most of the non-clinical studies of the first two years of the courses required in the Medical Colleges. The student can select from the medical subjects offered at Bucknell University such as will be required for advanced standing in the Medical College in which he may wish to complete his studies for the degree in medicine, and if his standing in such subject averages not less than nine, he will receive from the Department of Medicine in Bucknell University a Certificate of proficiency in those subjects and in such other subjects related to medical studies as he may have completed at Bucknell. These subjects are open only to students in the college of Liberal Arts, and the Certificate of proficiency is given to students only upon graduation, and in addition to the Diploma of the College of Liberal Arts.

1. **Animal Physiology.** Recitations, lectures, and laboratory work. Second term, Experimental Physiology. Third term.

2. **Experimental Psychology.** Recitations, lectures, and experiments.

3. **Neurology.** Recitations, lectures, and laboratory work.

4. **Physiological Psychology.** Recitations, lectures, and experiments.

5. **Pathology.** Recitations, lectures, and autopsies.

6. **Sanitary Science.** Recitations and lectures.

7. **Human Osteology and Comparative Anatomy.** Recitations and dissection.

8a. **Human Anatomy.** Recitations and dissection of human body.

8b. **Human Anatomy.** Recitations and dissection of human body.

9. **Normal Histology.** Recitations, lectures, and laboratory work.

10. **Embryology.** Recitations, lectures, and laboratory work.

11. **Biology.** Recitations and dissections.

12. **Invertebrate Zoölogy.** Recitations and dissections.

13. **Vertebrate Zoölogy.** Recitations and dissections.

14. **Phænogamic Botany.** Recitations, lectures, and field work.

15. **Cryptogamic Botany.** Recitations, lectures, and field work.

16. **Bacteriology.** Recitations, lectures, and laboratory work.

17. **Materia Medica.** Chemical preparations.

18. **Descriptive Chemistry.** Recitations and laboratory work.

19. **Analytical Chemistry.** Recitations and laboratory work.

20. **Quantitative Analysis.** Recitations and laboratory work.

21. **Toxicological and Urine Analysis.**

22. **Physiological Chemistry.** This course includes such chemical determinations as are of special importance to medical students.

THE BIOLOGICAL LABORATORY.

The Biological Laboratory is equipped with apparatus for carrying on work in the Organic Sciences. A large room has been fitted up especially for Microscopic work with equipments for fifteen students. Each student has a separate desk containing a microscope and the necessary reagents. The Laboratory is also supplied with collecting and bacteriological apparatus, with books of reference, and other appliances necessary for carrying on Biological research. Those taking Microscopy have the use of microtomes, incubators, reagents, etc. New apparatus is added as occasion demands. The work in Zoölogy is illustrated by marine and fresh-water forms, skeletons, and mounted specimens. In comparative Anatomy and Osteology the work is illustrated by skeletons representing different types of vertebrates. Physiology is illustrated with human skeletons, a life-size French manikin, prepared tissue, and numerous charts. Material for Human Anatomy is received from the State Anatomical Board in Philadelphia, and each student has the opportunity to dissect the whole human body. The work in Materia Medica is illustrated by specimens of crude drugs. The student in Histology and Embryology has a good supply of paraffin and collodion blocks. The work is illustrated with microscopic slides, alcoholic material, and French wax models. Each student is provided with dissecting instruments.

THE MUSEUM.

Curator: Professor Nelson Fithian Davis, sc. d.

The University possesses good collections of illustrative material in Botany, Zoölogy, Histology, Geology, Mineralogy, and Materia Medica. Parts of these collections are kept in the laboratories and used in class-room work.

Since the erection of the Carnegie Library two large rooms in this building have been set aside as a museum, and during the year the principal collections will be transferred from the Main college to these rooms. A special effort is being made to secure additions to the museum and objects will be thankfully received, especially such as can be used in laboratory work. Among these may be mentioned: marine and fresh-water forms of life; insects; skeletons of vertebrates; birds and mammals; botanical specimens; crystalized minerals and rocks.

A large collection now owned by the University consists of minerals and rocks, fossils, and Indian relics. It is especially

desired to secure collections to illustrate the geology, minerals, flora, and fauna of Pennsylvania. Recently attention has been given to increasing the collection of Pennsylvania birds, and it is hoped that within a short time the University may possess a good series of mammals also.

During the past year contributions have been received from the following: Charles C. Shorkley, G. N. Wilkinson, J. W. Weddle, G. S. Perez, J. S. Davis, Professor G. G. Groff, the class in Entomology, A. W. Owens, James R. Bailey, H. N. Cole, A. S. Kech, W. L. Noll, Elsie Owens, and M. F. Goldsmith.

THE LIBRARIES AND READING ROOMS.

Librarian: Professor William E. Martin, A. M.
Assistants: Edwin R. Manchester and Frances E. Williams.

The College Library. The general library contains about twenty-six thousand volumes, besides many thousand pamphlets. The reading-room is connected with the library, and offers facilities for reading, studying, and writing. During term-time both are open forenoon and afternoon of each day, Sundays and holidays excepted, and both are maintained without extra charge to students. Students in all departments have free access to the shelves, and may draw two books at one time and retain them for two weeks, with the privilege of one renewal, if desired.

For greater convenience of instructors and students, collections of special technical books are also kept in the Laboratories of the Physical and Organic Sciences, and in the Astronomical Observatory.

The library is regarded as a working laboratory for all departments of instruction, students being constantly cited to it in class-room work. In this way, while answering the purpose of general culture, it supplements in great measure the monographic treatment of text-book study, and the student is trained under competent guidance to become an investigator. The resulting practical acquaintance with books and bibliography proves a valuable part of liberal education.

The Carnegie building for the accommodation of the library was erected in 1905, the gift of Hon. Andrew Carnegie, D. C. L.

By aid of the Card Catalogue and Pool's Index to Periodicals, all the resources of the library on any given subject are at once available.

Gifts to the library of money and of books will be thankfully acknowledged by the librarian.

GENERAL COLLEGE ORDERS.

ATTENDANCE.

Only under exceptional circumstances will excuses be granted to leave College during term time. In such cases the examination on the studies gone over by the class, during a student's absence, will be especially searching, and a high degree of attainment will be required. When a student is absent more than one fourth of the term for any reason, he is required to stand private examination in addition to the examination required of the class. One who is absent during the entire term must also necessarily lose his standing in his class. The work of the term begins on the day of opening, and recitations are expected at the first hour appointed for the meeting of the classes. The work continues uninterruptedly, with the exception of holidays marked in the Calendar, until the last day of the term.

STANDING.

Each instructor records, in numbers ranging from 0 to 10, the character of the recitation of every student reciting to him, and notes also any delinquency in conduct and attendance. The weekly summary of these markings is recorded in permanent books, and constitutes the basis for determining the standing of the student during his connection with the institution. Unexcused absences from recitations are counted as zero in making up the weekly averages. *Excused* absences have half the effect in lowering a student's standing as unexcused absences, but a student may, at the option of the professor do supplementary work to obviate the effect upon his standing of excused absences. At the close of each term an average of these marks is made out, and a report of the scholarship, attendance, and conduct of each student is transmitted to his parent or guardian by the President. No student is advanced from one class to another whose average in any study is less than 7; nor is any student recommended to the Board of Trustees for graduation in the general courses if his average standing during either his Freshman or Sophomore year is below 8; or if in his Junior year it is below 8.5; or if in his Senior year it is below 9.

The passing grade for graduate students is 9. No one will be recommended for graduation in the Courses of Jurisprudence, Biology, Chemistry, and in Civil Engineering, nor be granted a certificate in the Law or Medical studies, if his average is below 9.

Conditioned students are not recommended to the Board of Trustees for promotion. Students conditioned on entrance must discharge such conditions within the first year thereafter.

If the student has failed in the studies of a term, he will not be permitted to enter upon the studies of a subsequent term until he has passed in the subjects in which he failed, unless a postponement of examination to a definite time is granted by the Faculty.

Appointments in the Graduating Class are made according to the aggregate standing of each member during his entire course. But in assigning these parts the Faculty takes into account the deportment of the student, as well as marks for recitations. The minimum average for an Oration of the First Class is fixed at 9, and for an Oration of the Second Class at 8.

Students who attain an average of 9.4 or more for their entire course are graduated *summa cum laude;* students who attain an average of 9.2 or more are graduated *magna cum laude;* those who attain an average of 9 or more are graduated *cum laude.*

EXAMINATIONS.

The dates of the examination are given in the Calendar. In case a student fails to be present at the examination of his class, for any justifiable reason, his examination will be held at such time as the Faculty may appoint, but in no case is an examination granted a student in advance of the time appointed for the examination of the class.

Unless for very good reasons to the contrary, a student who is granted a special examination will be required to pay a fee therefor.

PUBLIC WORSHIP.

The College duties of each day are opened with religious services at Bucknell Hall, which all the students of the College are required to attend. Way of Life Meetings under the charge of the President are held every Sunday afternoon in Bucknell Hall, when addresses upon religious and moral topics are presented.

Attendance upon public worship in some church in town on Sunday morning is required. Students must attend the religious services held on Thanksgiving Day.

On the Day of Prayer for Colleges, religious services are held in the forenoon, when a sermon is preached by the President, or by some one at his request. All the students are required to attend. In the afternoon and evening services are held in Bucknell Hall, attendance upon which is advised, but not required.

GOVERNMENT.

It is assumed that all who enter upon the courses of study in the College do so for the purpose of acquiring an education, not only of the intellect, but also of character. The Laws of the College, enacted by the Board of Trustees, are as few and simple as the proper regulation of a community of young men will permit. These are printed, and a copy is placed in the hands of every student at the beginning of each year. These laws must be observed, not only in their letter, but in their spirit. The atmosphere of the institution is not that of arbitrary restraint, but of reasonable conformity to reasonable laws. The College does not wish to place its stamp or bestow its honors upon any one who is not willing to deport himself as a gentleman. Each student is distinctly placed upon his manhood, and if he abuses his privileges, after reasonable caution, he must withdraw from the institution.

PRESIDENT'S OFFICE HOURS.

The President of the University is in his office in the Main College building, every Tuesday, from 9.30 A. M. to 12 noon, to confer with students who may desire advice or assistance. Students are encouraged to communicate frankly with the President upon any subject in which he may be of help to them.

OFFICE HOURS FOR THE COLLEGE WOMEN.

The Dean of the Women's Department will meet in his office College women who may desire advice or assistance from him.

VOLUNTARY SOCIETIES.

The Young Men's Christian Association is formed of students of the College. It receives religious periodicals and corresponds with kindred societies. A hall has been appropriated to the Society, and has been suitably furnished for religious meetings.

The Young Women's Christian Association, a voluntary society open to the officers and students of the College and Institute, meets weekly. The regular Tuesday evening prayer-meeting, missionary and temperance work, special Bible Classes and College Settlement work are in charge of this Association.

Euepia; Theta Alpha. These are the two Literary Societies of the College for men. They hold meetings for Orations, Essays, and Debates. Each Society has a convenient hall, and by an arrangement of the Faculty will always have a nearly equal number of members.

The Zeta Literary Society is composed of young women admitted to any of the Courses in the College.

The Students' Publication Association is an organization which has in charge the issuing of the *Bucknell Mirror.* This periodical appears monthly during the collegiate year. The same Association publishes the *Commencement News* daily during Commencement week.

Another association of students publishes, weekly, during the school year, the *Orange and Blue.*

The Athletic Association of the college has been formed to encourage and regulate athletic sports. Considerable liberty is allowed the Association in carrying out its purpose. The Association is not allowed, however, to arrange match games with other similar bodies without having secured the consent of the Faculty.

No student who is deficient in rhetorical or class-room work in any term shall be eligible to the office of manager or director in any student organization, or to be a member of any exhibiting organization, or of any contesting athletic team, or of any publishing or editing board during any subsequent term until such deficiency is made up.

HEALTH AND PHYSICAL CULTURE.

GEORGE W. HOSKINS, PHYSICAL DIRECTOR.

The Tustin Gymnasium has been provided for the physical training and development of young men. Young women have opportunity for physical training in the Gymnasium of the institute. These are now provided with the apparatus usually found in well-furnished gymnasiums. The Directors of the Gymnasium examine every student, taking and recording in a book his physical measurements, and prescribe such exercise as may be required for his physical development. Regular exercise in the Gymnasium is required of all students during the winter term.

AIDS AND HONORS.

PRIZES.

The prizes are awarded to the persons who in the judgment of the several committees attain the highest degree of excellence among the respective competitors, but no prize is bestowed unless a high degree of merit has been attained by the person receiving it.

THE PRIZE OF THE CLASS OF '71.

This prize, established by the Class of 1871, is awarded to the student of the Freshman Class who shall prove himself best prepared for College in the two branches, Latin and Mathematics, and who shall have received his preparatory training at Bucknell Academy.

The prize for 1906 was awarded to Charles Stilwell Roush.

THE FRESHMAN DECLAMATION PRIZE.

A prize is awarded to the member of the Freshman Class who shall excel in declamation at the Annual Contest of the Freshman Class.

The prize for 1906 was awarded to Doncaster G. Humm.

THE SOPHOMORE DECLAMATION PRIZE.

A prize is awarded to the member of the Sophomore Class who shall excel in declamation at the Annual Contest of the Sophomore Class.

The prize for 1906 was awarded to Charles L. Bromley.

DECLAMATION PRIZES FOR WOMEN.

Prizes for the best declamation, open for competition to the Sophomore and Freshman Classes, were awarded in 1906 respectively to Jennie Hopwood and Mary F. Burgess.

THE REGISTRAR'S PRIZE.

The Registrar of the University offers a prize to that member of the Junior Class who shall pronounce the best oration at the Junior Exhibition in Oratory.

The Junior oratorical prize was awarded in 1906 to George A. Riggs.

The corresponding prize for Women was awarded in 1906 to Helena Olds.

THE JUNIOR DEBATE PRIZE.

Prizes are awarded to the two members of the Junior Class who evince superiority in debate at the Junior prize contest.

The first prize was awarded in 1906 to Havard Griffith; the second to Charles E. Brockway.

THE HOLLOPETER PRIZE.

William C. Hollopeter, M. D., Class of 1874, has established an annual prize for excellence in Chemistry, to be awarded to that student at graduation who shall have done the best work in Chemistry, regard being had both to the amount and quality of the work.

The prize was awarded in 1906 to Robert B. Leighou.

THE HERBERT TUSTIN PRIZE.

In memory of his deceased son, the late Professor Francis Wayland Tustin, Ph. D., of the Class of 1856, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT TUSTIN PRIZE FUND, the interest of which is to be forever paid annually as two prizes, in the proportion of fifteen dollars for the First Prize, and of ten dollars for the Second Prize, to the two students of the Senior Class who shall have attained the highest and the second highest standing in Psychology and Ethics (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in college shall have been without exception."

The first prize was awarded in 1906 to William E. DeMelt; and the second to Genus E. Bartlett.

THE HERBERT GOODMAN BARROWS PRIZE.

In memory of his son, the Reverend William Barrows, A. M., of the Class of 1867, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT GOODMAN BARROWS PRIZE FUND, the interest of which is to be forever paid annually as two prizes of equal amounts to the student or two students of the Senior Class who shall have attained the highest standing, respectively, in the Latin and in the Greek language and literature (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The prize for excellence in Greek was awarded in 1906 to Mary Montfort Moll; the prize for excellence in Latin was awarded in 1906 to Florence Jeannette Cobb.

THE JOHN SPRAGUE PRIZE.

The Reverend Thomas Harry Sprague, Ph. B., of the Class of 1897, offers an annual prize to the student who excels in the courses in the English Bible, to be named in memory of his father, THE JOHN SPRAGUE ENGLISH BIBLE PRIZE.

The prize was awarded in 1906 to Mary Montfort Moll.

THE CHAPLAIN J. J. KANE PRIZE.

The Reverend James J. Kane, A. M., Chaplain of the United States Navy, and a graduate from the Theological Department of this University, of the Class of 1867, has established a prize which is to be given annually to that member of the graduating class who delivers the best oration on Commencement Day.

The prize was awarded in 1906 to Genus E. Bartlett.

THE ANNA MOORE HARE PRIZE.

In memory of his daughter, Anna Moore Hare, the Reverend Calvin Aurand Hare, A. M., has established an annual prize in Logic, to be awarded to that student at graduation who shall have done the best work in Logic, regard being had both to the amount and the quality of the work.

SCHOLARSHIPS.

I. THE BUCKNELL SCHOLARSHIPS.

The William Bucknell Scholarships, twenty in number and of $1,000 each, were established for the purpose of aiding worthy young men in securing an education which will increase their usefulness in life. The income from this fund is to be paid annually to twenty young men, in accordance with the rules which will be made known upon application to the Committee of Examination, consisting of the President of the University, H. S. Hopper, Esq., and Professor Rockwood.

II. SCHOLARSHIPS FOR MINISTERS' CHILDREN.

Scholarships upon the general foundation have been established for the children of ministers of the Gospel, of all denominations, in active service.

III. THE LIVINGSTON SCHOLARSHIPS.

Established from a legacy of M. B. Livingston, twenty-two in number, are available for students for the Ministry.

IV. THE LONGAN SCHOLARSHIP.

The Longan Scholarship, established from a legacy of O. W. Longan, Esq., is available for a student for the Ministry from Lycoming County, Pennsylvania.

V. THE LEWIS E. JONES SCHOLARSHIP.

Was established from a legacy of the late Lewis E. Jones, and is available for students of Welsh descent to the amount of the income from five hundred dollars.

VI. THE JOHN HOWARD HARE SCHOLARSHIP.

Established by the Reverend Calvin Aurand Hare, A. M., in memory of his son, John Howard Hare, available for a student for

the ministry upon recommendation of the Pennsylvania Baptist Education Society and the President of the University.

VII. THE MEDICO-CHIRURGICAL SCHOLARSHIP.

The Medico-Chirurgical Medical College of Philadelphia offers a scholarship covering tuition in that College to the student from Bucknell University who evinces the best preparation and aptitude for medical work.

VIII. THE PHILADELPHIA ALUMNÆ SCHOLARSHIP.

This scholarship, founded by the Philadelphia Alumnæ Club, is available for a young woman student from Philadelphia.

IX. THE GENERAL MILLER SCHOLARSHIPS.

Ten scholarships have been established by Major-General Charles Miller, A. M., to be awarded to worthy members of the graduating class.

X. ANNUAL SCHOLARSHIPS.

A number of persons have established annual scholarships for the aid of young men or women attending college. Information concerning ministerial and annual scholarships can be obtained from the President of the University.

EXTRA STUDIES.

In order to promote special scholarship in the several departments of study the following provision has been made:

1. Any student who has obtained an average of 9 in the studies of the previous term may take special work in any department of the College under the direction of the Professor of that department.

2. Such work must be assigned by the Professor, and the method of study prescribed by him.

3. If the student shall attain an aggregate average of 9 in all the studies of the current term, and pass a satisfactory examination in the voluntary study, the work shall be credited to him in the Annual Catalogue of the College.

4. Only one such study shall be pursued by any one student during any one term. A student may also take two minor studies in the Summer vacation.

5. The Professor with whom the student is working shall have the privilege of requiring a partial examination on the work done at any time during the term, and there may be regular recitations at the Professor's option.

6. The amount and quality of this extra work shall be taken into account in awarding honors at graduation, but is not counted for the Bachelor's degree.

EXPENSES.

The College charges amount to $100 per annum, for those who room in the College buildings, and $90 for those who room in the town. The College charges include library fee, gymnasium fee, and other incidental fees common to all students, as well as tuition. Tuition is rated at $50 per annum, and is included in the College charges. Students in the course in Civil or Electrical Engineering are charged $5 per term extra. Students in the other courses who take an engineering subject are charged the same rates as students in engineering. This charge is for the regular work; when a fourth study or honor study is taken, an extra charge is made. Graduation fee and diploma, $10. Masters' Degree and Diploma, $10.

The Study Rooms in the Main College are so arranged that two students occupy the same study. The Dormitories are intended to accommodate only one person, so that each student has his own private sleeping room. These are furnished with spring bedsteads. The student must supply himself with all other furniture. Students are responsible for damage to their rooms, whether it be done when they are present in the room or absent from it.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled.

An extra charge is made for electric lighting of private rooms.

An extra charge ranging from $5 to $10 per term is also charged for rooms in the West College.

An additional charge is made for rooms cared for by the Institution.

Young men in the Collegiate Department, who so desire, can have furnished rooms in the West College, with board in the Academy.

Young women in the Collegiate Department room and board in the Women's College. The standard annual charge for board,

tuition, furnished room, heating, lighting, is $265. An extra charge for choice rooms in the Bucknell Cottage and in New Cottage, ranging from $5 to $10 per term, is made.

The assignment of rooms is for one year, and is made the first Monday morning in June, immediately after the devotional exercises in Bucknell Hall. Students from a distance will save inconvenience by applying to the Registrar for a room before the term opens. A deposit of $10 is required when a room is chosen. This amount is credited upon the regular term bills. Should a student for good reason be unable to return, the deposit will be refunded, provided notice is sent to the Registrar not less than four weeks before the opening of the term for which the room is engaged.

In the Laboratories students pay for chemicals used and for apparatus broken or damaged. In the chemical laboratory $5 per term is charged for gas, water, and general chemicals for each course, except Courses 1 and 2, for which the charge is $2.50. A deposit of $5 per course is required to cover breakage and cost of extra chemicals.

A small fee is charged also in each of the elective courses in the departments of Mechanics and of Organic Science and in Surveying and Engineering, for the use of instruments and for material used.

Before entering upon the experimental courses students must deposit with the Registrar security for materials used.

These charges must be paid in advance at the beginning of each term.

No student is entitled to his place in his class until he has made settlement with the Registrar.

Students can board in clubs at a cost of from $2.00 to $2.50 per week. Boarding can be obtained in private families at $3.00 or $4.00 per week, or at the table of the Bucknell Academy at $3.00 per week. Washing is done at 25 cents per week. No self-boarding is allowed in the College buildings.

FIFTY-SIXTH ANNUAL COMMENCEMENT.

WEDNESDAY, JUNE 22, 1906.

HONORS AT GRADUATION.

ORATIONS SUMMA CUM LAUDE.

Elbina Lavinia Bender,
Joseph Leighton Challis,
Florence Jeannette Cobb,
William Eugene DeMelt,
Mary Montfort Moll,
Hugo Bruno Guido Riemer,
Edwin Warren Rumsey.

ORATIONS MAGNA CUM LAUDE.

Florence Louise Bacon,
Genus Ebert Bartlett,
Amos Ethan Barton,
Elbert Little Blakeslee,
Harold Newton Cole,
Harvey O. Dietrich,
Benajah Jack Gardner,
Maurice Frank Goldsmith,
Augustus Sheridan Kech,
Charles Aaron Knupp,
Edith E. Lane,
Robert Benjamin Leighou,
Helen Elizabeth Rickabaugh,
Silas Howard Schoch,
Dickson Shaw Stauffer,
Miles Timlin,
Sarah Ella Unger.

ORATIONS CUM LAUDE.

Norman Eugene Bliss,
Linn Clark Drake,
Fred Voris Follmer,
Sara Cyrena Furman,
Romaine Hassrick,
Leroy W. Hoon,
Henry Jones,
Hazel Louise Knapp,
Katherine Emma MacCart,
Carrie May McCaskie,
Grace Lenore Meek,
Henry Taylor Meyer,
Benjamin Earl Phillips,
James Leigh Shields,
Frank Landis Yost.

ORATIONS.

James Riley Bailey,
Edwin Anthony Beaver,
Burleigh Claypool,
Clarence Burnap Comstock,
William Thomas Coverdale,
John Grover Deininger,
William L. Donehower,
John Wallace Greene,
Armel Boltz Heffling,
John Franklyn Hennessy,
Charles McCallum Howell,
Edwin Gilmore Jack,
Walter Jarrett,
Joseph Cipriano Macro,
Clay Montgomery McCormick,
Catherine Frazer MacLaggan,
Carl Lyon Millward,
James Theodore Park,
Homer Derial Pease,
Thomas Benjamin Powell,
Penrose Herr Shelley,
Horace Jones Sheppard,
Charles Cushman Shorkley,
John Daniel Peck Smithgall,
Harry Thomas Stevenson,
Frank Laton Stewart,
Abram Pierce Waltz,
Athol Vernon Wise,
Carl Schultz Yingling.

DEGREES CONFERRED ON EXAMINATION.

MASTER OF ARTS.

George Ripley Bliss,
Roy Grier Bostwick,
Adelia Burgart,
Mansfied French Forbell,
Charles Ellsworth Hankey,
John Erb Hunsberger,
Albert George Karge,
Sarah Esther Lee,
Walter Kremer Rhodes,
James Wilson Snyder,
Benjamin Franklin White,
Thomas Wood,
William D. Zerby.

MASTER OF SCIENCE.

George T. Cooper,
William Carey Purdy,
Harold Edward Tiffany,
Walter Samuel Wilcox,
Clyde Dale Wolfe.

BACHELOR OF ARTS.

Genus Ebert Bartlett,
Amos Ethan Barton,
Elbina Lavinia Bender,
Norman Eugene Bliss,
Joseph Lincoln Challis
(Jurisprudence),

BACHELOR OF ARTS—Continued.

Florence Jeannette Cobb,
William Thomas Coverdale,
John Grover Deininger,
Harvey O. Dietrich,
Linn Clarke Drake,
Frederick Voris Follmer (Jurisprudence),
Maurice Frank Goldsmith,
John Wallace Green,
Romaine Calvin Hassrick,
Edwin Gilmore Jack,
Joseph Cipriano Macro,
Katherine Emma MacCart,
Carrie May McCaskie,
Clay Montgomery McCormick,
Catherine Fraser McLaggan,
Henry Taylor Meyer,
Mary Montfort Moll,
Homer Derial Pease,
Benjamin Earle Phillips (Jurisprudence),
Hugo Bruno Charles Riemer,
Edwin Warren Rumsey,
Silas Howard Schoch (Jurisprudence),
Horace Jones Sheppard,
James Leigh Shields,
Frank Laton Stewart,
Abram Pierce Waltz,
Frank Landis Yost.

BACHELOR OF PHILOSOPHY.

Florence Louise Bacon,
James Riley Bailey,
Elbert Little Blakeslee,
Burleigh Claypool,
Harold Newton Cole,
William Eugene DeMelt,
Sarah Cyrena Furman,
Armel Boltz Heffling,
Henry Jones,
Hazel Louise Knapp,
Edith E. Lane,
Grace Lenore Meek,
Carl Lyon Millward,
Helen Elizabeth Rickabaugh,
Sarah Ella Unger.

BACHELOR OF SCIENCE.

Edwin Anthony Beaver,
Clarence Burnap Comstock,
William Leiser Donehower,
Benjamin Jack Gardner,
John Franklin Hennessy,
Leroy W. Hoon,
Charles McCollum Howell,
Walter Jarrett,
Augustus Sheridan Kech,
Charles Aaron Knupp (Chemistry),
Robert Benjamin Leighou,
James Theodore Park,
Penrose Herr Shelley,
Charles Cushman Shorkley,
John Peck Smithgall,
Dickson Shaw Stauffer,
Harry Thomas Stevenson,
Miles Timlin,
Athol Verne Wise,
Carl Schultz Yingling.

BACHELOR OF LETTERS.

GERTRUDE STANNERT, MARGARET MALVINA WAGNER.

HONORARY DEGREES CONFERRED.

MASTER OF ARTS.

HARRY SAMUEL HOPPER, EDWIN HENRY SIBLEY, A. B.,
EDWARD B. TUSTIN.

DOCTOR OF SCIENCE.

ARTHUR JOHN ROWLAND.

DOCTOR OF LETTERS.

EVERETT TITSWORTH TOMLINSON, PH. D.

DOCTOR OF DIVINITY.

THE REVEREND JOSEPH STINSON BROMLEY,
THE REVEREND THOMAS MIDGELY EASTWOOD, A. B., A. M.

COMMENCEMENT ADDRESSES.

Baccalaureate Sermon, ... The President
Sermon, Education Society, ... William M. Walker, d. d.
Address before the Literary Societies..... B. L. Whitman, ll. d.
Address before the Alumni Association,
Ralph C. H. Catterall, ph. d.
Poem before the Alumni Association, ... Franklin P. Lynch, m. d.
Annual Address, ... Talcott Williams, ll. d.
Address to the College Class, ... The President

TEACHERS' PERMANENT CERTIFICATES.

Awarded by the State of Pennsylvania to Graduates of Bucknell College, 1905-1906:—

John Henry Eisenhauer, a. b.
Edith E. Lane, ph. b.
Philip Reilly, a. b.
John Daniel Peck Smithgall, sc. b.
Miles Timlin, sc. b.
Irvin Willington Ziegler, sc. b.

BACCALAUREATE THESES.

1. The Problem of the Scarlet Letter,
   FLORENCE LOUISE BACON.
2. Recapitulation Theory of Evolution,
   JAMES RILEY BAILEY.
3. Mohammedanism as a Factor in the Civilization of Europe,
   GENUS EBERT BARTLETT.
4. The Theism of Biology,
   AMOS ETHAN BARTON.
5. Slavery and its Abolition,
   EDWIN ANTHONY BEAVER.
6. The Optimism of Robert Browning,
   ELBINA LAVINIA BENDER.
7. The Suppression of the Theaters,
   ELBERT LITTLE BLAKESLEE.
8. The Development of the Iron Industry,
   NORMAN EUGENE BLISS.
9. Law and Morality,
   JOSEPH LEIGHTON CHALLIS.
10. The World's Conquerors,
    BURLEIGH CLAYPOOL.
11. A Comparison of Schiller's "The Robbers" and "William Tell,"
    FLORENCE JEANNETTE COBB.
12. Evolution of Consciousness,
    HAROLD NEWTON COLE.
13. Education a Means of Assimilating the Foreign Element,
    CLARENCE BURNAP COMSTOCK.
14. Is Cause and Effect a Category of the Understanding?
    WILLIAM THOMAS COVERDALE.
15. Economic Liberty,
    WILLIAM EUGENE DEMELT.
16. Sketch of the Characteristics and Life of William Rainey Harper,
    JOHN GROVER DEININGER.
17. Moral and Literary Training in the Public Schools,
    HARVEY O. DIETRICH.

18. Japan's Rise as a Nation; Primarily from an American Standpoint,
WILLIAM L. DONEHOWER.

19. Modern Science and the Question of Heredity,
LINN CLARK DRAKE.

20. The Psychological Basis of Socialism,
FRED VORIS FOLLMER.

21. Hawthorne's Marble Faun,
SARA CYRENA FURMAN.

22. Branch Banking and Its Advantages,
BENAJAH JACK GARDNER.

23. The Scientific Method in Higher Education,
MAURICE FRANK GOLDSMITH.

24. The Transforming Effect of Christianity on Society,
JOHN WALLACE GREENE.

25. Assimilation of the Foreign Element in the United States,
ROMAINE HASSRICK.

26. Some Characteristic Traits of Alfred the Great,
ARMEL BOLTZ HEFFLING.

27. The Participation of the People in City Government,
JOHN FRANKLYN HENNESSY.

28. The Riddle Superstition,
LEROY W. HOON.

29. The Mineral Industries of the United States,
CHARLES MCCALLUM HOWELL, JR.

30. Production and Economic Value of Petroleum and Natural Gas,
EDWIN GILMORE JACK.

31. Optimism and Pessimism,
WALTER JARRETT.

32. Development of the Art of War,
HENRY JONES.

33. The Queen Ant as a Psychological Study,
AUGUSTUS SHERIDAN KECH.

34. Character of Tennyson,
HAZEL LOUISE KNAPP.

35. The Progress of Geology,
CHARLES AARON KNUPP.

36. Philosophy of the Autocrat of the Breakfast Table,
EDITH E. LANE.

37. Is Abiogenesis Impossible?
ROBERT BENJAMIN LEIGHOU.

38. Enquiry Concerning the Understanding,
JOSEPH CIPRIANO MACRO.

39. Mathematics,
KATHERINE EMMA MACCART.

40. The Panama Canal,
CARRIE MAY MCCASKIE.

41. The Development of the Law of England,
CLAY MONTGOMERY MCCORMICK.

42. The History of Philosophy,
KATHERINE FRASER MACLAGGAN.

43. The Genesis of Alexander and Results to the World of His Conquests,
GRACE LENORE MEEK.

44. Thackeray as a Delineator of Human Nature,
HENRY TAYLOR MEYER.

45. The French Revolution,
CARL LYON MILLWARD.

46. Tennyson, the Interpreter of His Age,
MARY MONTFORT MOLL.

47. Some Pictures from Poems,
JAMES THEODORE PARK.

48. The Part of the Maccabean Family in the History of the Jews,
HOMER DERIAL PEASE.

49. Feudalism as a Social and Political Institution,
BENJAMIN EARL PHILLIPS.

50. The City as a Social Fact,
THOMAS BENJAMIN POWELL.

51. Schiller's Don Carlos,
HELEN ELIZABETH RICKABAUGH.

52. Medical Inspection of Immigrants,
HUGO BRUNO CHARLES RIEMER.

53. Characteristics and Effects of Monasticism in Europe,
EDWIN WARREN RUMSEY.

54. The Crime of Negro Suffrage,
SILAS HOWARD SCHOCH.

55. Municipal Ownership,
PENROSE HERR SHELLEY.

56. The French Huguenots in America,
HORACE JONES SHEPPARD.

57. The Japanese Problem in Korea,
JAMES LEIGH SHIELDS.

58. By-Product Manufacture of Coke in the Pocahontas Coal Field,
CHARLES CUSHMAN SHORKLEY.

59. Immigration, Past and Present,
JOHN DANIEL PECK SMITHGALL.

60. The Determination of Temperatures,
DICKSON SHAW STAUFFER.

61. The Poetry of Revolt in English Literature,
GERTRUDE STANNERT.

62. Police Administration,
HARRY THOMAS STEVENSON.

63. Reason in Animals,
FRANK LATON STEWART.

64. The Growth of Industry in the West,
MILES TIMLIN.

65. William Cullen Bryant as a Poet of Nature,
SARAH ELLA UNGER.

66. William Cullen Bryant: What Was His Message to Us, How Did He Bring It,
ABRAM PIERCE WALTZ.

67. The Development of Shakespeare as a Dramatist,
MARGARET MALVINA WAGNER.

68. Trust Companies as Promoters of Industry,
ATHOL VERN WISE.

69. Kant,
CARL SHULTZ YINGLING.

70. Attention as a Process of Mental Elaboration,
FRANK LANDIS YOST.

THE ACADEMY.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY.

BENJAMIN F. THOMAS, A. M., PRINCIPAL.
LATIN.

MARTIN LINNAEUS DRUM, PH. B.,
MATHEMATICS.

PHARES GROSS HESS, A. B.,
SCIENCE AND GERMAN.

ANTHONY STEINHILPER, A. B.,
GREEK AND LATIN.

HENRY TAYLOR MEYER, A. B.,
ENGLISH.

JOSEPH LINCOLN CHALLIS, A. B.,
HISTORY.

WILLIAM CHRISTIAN GRETZINGER, A. M.,
REGISTRAR OF THE UNIVERSITY.

ACADEMY STUDENTS.

FOURTH FORM.

CLASSICAL COURSE.

NAME.	RESIDENCE.	ROOM.
Charles Hunter Heacock,	*Turbotville.*	No. 5, Main Hall
George William Lawrence,	*Pennington, N. J.*	No. 7, Main Hall
Le Roy MacFarland,	*Trenton, N. J.*	No. 11, East Hall
Evan Welling Thomas,	*Lewisburg.*	East Market Street
Earl Gladstone Watkins,	*Scranton.*	No. 12, Main Hall

SCIENTIFIC COURSE.

Luther Steele Clark,	*Hastings.*	No. 13, East Hall
Harold McClure Neff,	*Sunbury.*	Sunbury
Walter Daniel Rhoads,	*Allentown.*	No. 19, East Hall
Paul Daniel Schreiber,	*Allentown.*	No. 19, East Hall
Leon Wilson Watrous,	*New York City.*	North Third Street

THIRD FORM.

CLASSICAL COURSE.

Arthur R. Gerhart,	*Lewisburg.*	North Third Street
Coleman John Harris,	*Lewisburg.*	University Avenue

NAME.	RESIDENCE.	ROOM.
James Pardon Harris,	*Lewisburg.*	University Avenue
Robert Ray McCombs,	*McClellandtown.*	No. 9, East Hall
Harold William Musser,	*Lewisburg.*	South Third Street
Ralph Laughton Richardson,	*Driftwood.*	No. 8, East Hall
Lawrence Zarrilli,	*Trenton, N. J.*	No. 11, East Hall

SCIENTIFIC COURSE.

Hamill B. Alexander,	*Marietta.*	No. 14, East Hall
Newton Le Roy Bowes,	*Shamokin Dam.*	Shamokin Run
Stanley Quay Brown,	*Rochester.*	No. 14, East Hall
Friedman Holmes Cathrall,	*West Pittston.*	North Second Street
Norris Ira Craig,	*Philadelphia.*	South First Street
Charles Edgar Dreher,	*Paxinos.*	No. 21, East Hall
John Walter Evans,	*Patton.*	No. 8, East Hall
James Robert Gemmill,	*Allenwood.*	No. 8, East Hall
Charles Wagner Gwinner,	*St. Clair.*	No. 10, East Hall
Dale Davis Hollenbaugh,	*Lewisburg.*	South Fourth Street
Lawrence Ambrose Henderson,	*Montgomery.*	Montgomery
Roy Allen Long,	*Northumberland.*	Northumberland
James Dallas Marks,	*Middleburg.*	No. 20, East Hall
Cortlandt Rowley Prosser,	*Barnesboro.*	No. 13, East Hall

NAME.	RESIDENCE.	ROOM.
Louis David Roberts,	*Juniata.*	No. 4, Main Hall
Norman Wildwood Ryan,	*Wildwood, N. J.*	No. 15, East Hall
Gilbert Schoch,	*Lewisburg.*	South Second Street
Clinton Elmer Sitler,	*Tamaqua.*	No. 7, Main Hall
Paul Lowry Stein,	*Lewisburg.*	North Third Street
John Lester Strassner,	*Lewisburg, R. F. D.*	Lewisburg
Alexander Truitt, Jr.,	*Punxsutawney.*	No. 23, East Hall
Sylvan Woods,	*Philadelphia.*	No. 23, East Hall

SECOND FORM.

Gustavo Bernard,	*Havana, Cuba.*	No. 6, Main Hall
Earl Mitchell Bloom,	*Troy.*	No. 20, East Hall
Jacob Evans Boyer,	*Linfield.*	No. 21, East Hall
John Watson Clark,	*Glen Campbell.*	No. 18, East Hall
Norman Robert Davis,	*Allenwood.*	Allenwood
James Rishel Fairchild,	*Lewisburg, R. F. D.*	Lewisburg
Frederick Knapp Getz,	*Lewisburg.*	North Fourth Street
George Freeman Haines,	*Winfield.*	Winfield
Frank Russell Hamblin,	*Lewisburg.*	South Third Street
James Focht McClure,	*Lewisburg.*	University Avenue
John McCulloch,	*Eleanora.*	No. 10, Main Hall

NAME.	RESIDENCE.	ROOM.
LAWRENCE GROVER OPPENHEIMER,	*Bedford.*	No. 17, East Hall
LEO DE LANCEY PARRY,	*Girardville.*	No. 10, East Hall
HARRY GUNDY PAWLING,	*Bucknell.*	Bucknell
STERLING THOMAS POST,	*Dalton.*	No. 5, Main Hall
GEORGE ALLEN RHOADS,	*Shamokin Dam.*	Shamokin Dam
HAROLD AUGUSTUS SHAFFER,	*Lewisburg.*	South Second Street
BENJAMIN JOHN WEISMER,	*Wilkes-Barre.*	No. 22, East Hall
GUY ALLEN WENDT,	*Shamokin Dam.*	Shamokin Dam

FIRST FORM.

WILLIAM JACKSON FOLLMER,	*Lewisburg.*	Lewisburg
WALTER DEMPSTOR GEMMILL,	*Allenwood.*	Allenwood
WALTER WILLIAM HARRIS,	*Lewisburg.*	University Avenue
WALTER JOSEPH KIRSCHBAUM,	*Williamsport.*	No. 17, East Hall
JOSEPH HENRY OVARES,	*Havana, Cuba.*	No. 6, Main Hall
DILLINGER HIXON SHAFFER,	*Greensburg.*	No. 9, East Hall
HENRY WARREN VAN PELT,	*Lewisburg.*	South Third Street

STUDENTS PURSUING SELECT STUDIES.

CHARLES WEISER APP,	*Lewisburg.*	Market Street
WALTER WILLIAM ATKINSON,	*Lewisburg.*	North Seventh Street

NAME.	RESIDENCE.	ROOM.
Carl Garrison Baker,	*Selbyville, Del.*	No. 7, Main Hall
William Neil Baker,	*Lewisburg.*	Lewisburg
Fernando Berrayarza,	*Cienfuegos, Cuba.*	South Fifth Street
Mario Berrayarza,	*Cienfuegos, Cuba.*	South Fifth Street
Paul Irvine Blyler,	*Winfield.*	Winfield
La Rue Edgar Brown,	*Lewisburg, R. F. D.*	Lewisburg
Charles Norman Brubaker,	*Liverpool.*	No. 20, East Hall
Lawrence Merrill Butler,	*Ashtola.*	No. 4, Main Hall
Charles Pollock Corss,	*Lock Haven.*	No. 19, East Hall
Benjamin Ashbury Donachy,	*Lewisburg.*	South Fourth Street
Ira Thomas Fiss,	*Shamokin Dam.*	Shamokin Dam
Carlos Ganzalez,	*Chihuahua, Mexico.*	No. 17, East Hall
Lester Abraham Harris,	*Lewisburg.*	Market Street
Charles Stetler Hottenstein,	*Winfield.*	Winfield
Harry Shaner Hoffman,	*Sunbury.*	Market Street
Edward Dean King,	*Barnesboro.*	No. 13, East Hall
Harry Ray Lohman,	*Milton.*	Milton
Norman Blair McAnulty,	*Barnesboro.*	No. 13, East Hall
Phillip Feolette Mershon,	*Lewisburg.*	South Third Street
Blaine James Morgan,	*Robertsdale.*	No. 8, Main Hall
Miles Ottomer Noll,	*Lewisburg, R. F. D.*	Lewisburg

NAME.	RESIDENCE.	ROOM.
Nestor Lewis Ovares,	*Havana, Cuba.*	No. 11, East Hall
Edward Ashmun Parsons,	*Towanda.*	No. 8, Main Hall
William Edwin Parsons,	*Montgomery.*	No. 5, West Wing
John Rovirosa,	*Puerto Principe, Cuba.*	South Fifth Street
Frederick Richard Scherer,	*Scranton.*	Lewisburg
Daniel Arter Stanley,	*Greensburg.*	No. 22, East Hall
Alfred Brockway Tappan,	*Merida, Yucatan, Mexico.*	No. 17, East Hall
Arthur Stewart Wahl,	*Reading.*	No. 12, Main Hall
Clarence Eugene Witmer,	*Malta.*	No. 7, Main Hall

SUMMARY.

The Fourth Form, Classical	5	
Scientific	5	
		—10
The Third Form, Classical	7	
Scientific	22	
		—29
The Second Form	19	
The First Form	7	
Students Pursuing Select Studies	32	
		—58
Total in the Academy		97

Students enrolled in other departments of the University who receive instruction in the Academy classes:

Greek of the Fourth Form	6	
Third Form	7	
Latin of the Fourth Form	3	
Second Form	4	
		—20
Total receiving instruction in Academy classes		117

COURSES OF STUDY.

The Academy is designed to fit pupils for College, for Teaching, or for Business. It offers three Courses of Study.

I. The Classical Course extends through four years and is arranged to meet the requirements for admission to College. The Study of Latin begins with the First Form and continues for four years and two terms. The study of Greek begins with the Third Form and continues for two years and one term. Notwithstanding the time given to these branches of study, fully one half of the entire course is devoted to English, Historical, Mathematical, and Scientific subjects.

I. The Latin Scientific Course extends through four years and furnishes adequate preparation for either division of the Philosophical Course in College. The First and Second Forms of the Classical and Scientific Courses are identical. In the Third and Fourth Forms, the students preparing for the Latin Division substitutes Historical and Scientific subjects for the Greek of the Classical Course; while the student preparing for the Greek division substitutes the Greek of the Third and Fourth Forms for the Latin and includes Historical and Scientific subjects.

III. The Scientific Course extends through four years and prepares for the Courses in General Science, in Biology, in Chemistry, and in Civil and Electrical Engineering in College. For the Vergil and the Cicero of the Latin Scientific Course, it substitutes one term of Advanced English, one term of Chemistry, and two years of German.

Students who are able to accomplish more work in the allotted time than is required by the Course may pursue honor work in the Classics by reading, under the instructor's direction, Cæsar's Civil War, Cicero's Letters, or Vergil's Eclogues, and Books IV, V, VI of the Iliad, or the Cyropædia.

Students will be admitted to the Form for which they are prepared.

Students who do not intend to enter College, but who desire a comprehensive academic training, will find the Scientific or the Latin Scientific Course well adapted to prepare them for teaching or for business.

Special classes in History and Literature are maintained to meet adequately the requirements of applicants for examination and registration as students at law, under the rules adopted by the Supreme Court of Pennsylvania.

CURRICULA

Arabic numerals indicate the number of recitations a week in each subject.

I. THE CLASSICAL COURSE.

FIRST FORM.

I. Term—	Algebra, 5,	History, 5,
	Latin, 5,	English, 5.
II. Term—	Algebra, 5,	English, 5,
	Latin, 5,	Drawing, 5.
III. Term—	Geometry, 5,	History, 5,
	Latin, 5,	English, 5.

SECOND FORM.

I. Term—	Higher Arithmetic, 5,	Ancient History, 5,
	Cæsar, Introduction, 5,	Rhetoric, 5.
II. Term—		
	Book-keeping, / Commercial Arithmetic, 5,	Ancient History, 5,
	Cæsar, 5,	Literature, 5.
III. Term—	Physical Geography, 5,	Ancient History, 5,
	Cæsar, 5,	Literature, 5.

THIRD FORM.

I. Term—	Algebra, 5,	Greek, 5,
	Cæsar, 5,	Elocution, 5.

II. Term—Algebra, 5, Greek, 5,
Cæsar, 5, Literature, 5.

III. Term—Algebra, 5, Anabasis, 5,
Cicero, 5, Literature, 5.

FOURTH FORM.

I. Term—Geometry, 5, Cicero, 5,
Vergil, 5, Anabasis, 5.

II. Term—Geometry, 5, { Ovid, / Cicero, } 5,
Vergil, 5,
Iliad, 5.

III. Term—Physics, 5, Iliad, 5,
Vergil, 5, Anabasis, 5.

II. THE LATIN SCIENTIFIC COURSE.

FIRST FORM.

I. Term—Algebra, 5, History, 5,
Latin, 5, English, 5.

II. Term—Algebra, 5, English, 5,
Latin, 5, Drawing, 5.

III. Term—Geometry, 5, History, 5,
Latin, 5, English, 5.

SECOND FORM.

I. Term—Higher Arithmetic, 5, Ancient History, 5,
Cæsar, Introduction, 5, Rhetoric, 5.

II. Term—

{ Book-keeping, / Commercial Arithmetic, 5, } Ancient History, 5,
Literature, 5.
Cæsar, 5,

III. Term—Physical Geography, 5, Literature, 5,
Cæsar, 5, Ancient History, 5.

THIRD FORM.

I. Term—Algebra, 5, Elocution, 5,
Cæsar, 5,
German, 5, or *History of England*, 5.

II. Term—Algebra, 5, Literature, 5,
Cæsar, 5,
German, 5, or *Civics*, 5.

III. Term—Algebra, 5, Literature, 5,
Cicero, 5,
German, 5, or *Botany*, 5.

FOURTH FORM.

I. Term—Geometry, 5, *German*, 5,
Vergil, 5, or *Physiology*, 5,
Cicero, 5, or *Chemistry*, 5.

II. Term—Geometry, 5, { Cicero, / Ovid, } 5,
Vergil, 5,
German, 5, or *Astronomy*, 5.

III. Term—Physics, 5, *German*, 5,
Vergil, 5, or *Geology*, 5,
Solid Geometry, 5.

III. THE SCIENTIFIC COURSE.

FIRST FORM.

I. Term—Algebra, 5, History, 5,
Latin, 5, English, 5.

II. Term—Algebra, 5, English, 5,
Latin, 5, Drawing, 5.

III. TERM—Geometry, 5, History, 5,
Latin, 5, English, 5.

SECOND FORM.

I. TERM—Higher Arithmetic, 5, Ancient History, 5,
Cæsar, Introduction, 5, Rhetoric, 5.

II. TERM—
Book-keeping, Ancient History, 5,
Commercial Arithmetic, 5, Literature, 5.
Cæsar, 5,

III. TERM—Physical Geography, 5, Literature, 5,
Cæsar, 5, Ancient History, 5.

THIRD FORM.

I. TERM—Algebra, 5, German, 5,
Cæsar, 5, Elocution, 5.

II. TERM—Algebra, 5, German, 5,
Cæsar, 5, Literature, 5.

III. TERM—Algebra, 5, German, 5,
Botany, 5, Literature, 5.

FOURTH FORM.

I. TERM—Geometry, 5, History of England, 5,
Physiology, 5, German, 5.
or *Chemistry*, 5,

II. TERM—Geometry, 5, Civics, 5,
Astronomy, 5, German, 5.

III. TERM—Physics, 5, German, 5,
Geology, 5, Solid Geometry, 5.

METHODS OF INSTRUCTION.

The Preparatory Curriculum naturally falls into seven principal lines of study, viz.: English, German, Latin, Greek, History, Mathematics, and Natural Science. These combine, in due proportion, the cultural, the disciplinary, and the practical elements of intermediate education. The two great divisions of modern study, the Classical and the Scientific, are accorded adequate and appropriate preparation. The subjects, facilities, and methods of the various departments are explained below.

I. THE ENGLISH LANGUAGE.

A thorough grounding in the principles of English Grammar is indispensable to the student's progress in the subsequent language studies. The continuous application of this knowledge in Composition, and the constant comparison with the forms and idioms of the Ancient Languages, prepare the way for the study of elementary Rhetoric, and the appreciative reading of English and American Literature. This work is done in the First Form.

In the Second Form a review in the principles of English Grammar is given, and a practical application of the same, together with rhetorical structure in paragraph writing and composition.

In the Third Form the first term is devoted to the study of Elocution, and the remaining two terms take up the study of Literature. The reading and study of the masterpieces of English and American Literature is maintained by means of daily recitations. The work required is identical with the "Scheme of Uniform Entrance Examinations in English Language and Literature," adopted by the "Association of Colleges and Preparatory Schools of the Middle States and Maryland." It comprises (a) careful reading of representative works of certain authors, as literature; (b) thorough study as to "subject-matter, form and structure" of other selections.

II. THE LATIN LANGUAGE.

The Course includes four and two-third years of Latin, embracing four books of Cæsar, six orations of Cicero, six books of Vergil, and twelve hundred lines of Ovid, besides a complete Course in Grammar and Composition.

Careful drill is given in the declensions and conjugations, in the use of the moods and the sequence of tenses, in the ready reading of the Latin text, in sight reading and in accurate translations into idiomatic English. Attention is given to the important personal, historical, and political elements in the writings of Cæsar and Cicero. In Vergil, the student is introduced to the poetry, legend, religion, and art of Rome. He is taught to investigate the allegorical, archæological, and mythical allusions of the Æneid, and to appreciate it as the mirror of the life of the Empire. Latin prosody is taught first from the text, and then from the grammar.

III. THE GREEK LANGUAGE.

The first two terms of the Third Form are spent in a thorough study of White's First Greek Book. In the third term Xenophon's Anabasis is read, and special attention is given to acquiring a vocabulary and to the forms and syntax of nouns, pronouns, and adjectives. In the first half of the Fourth Form the reading of Xenophon is continued. During the last half year Homer's Iliad is read, and the difference between the Homeric and Attic Forms is noted. Throughout the course, Prose Composition is frequently required for the purpose of acquiring a vocabulary and a knowledge of syntax. The course includes four books of the Anabasis, four books of the Iliad, besides the Grammar and Prose Composition.

IV. THE GERMAN LANGUAGE.

One year's study of German is required of members of the Third and Fourth Forms of the Scientific Course. The same work may be elected by the members of the corresponding form of the Latin Scientific Course instead of the science subjects of that course. In the study of German, the aim is a thorough acquaintance with declensions and conjugations; facility of pronunciation; quick recognition of words both by the eye and the ear; as extensive a vocabulary as the time will allow; and by constant practice the laying of a foundation for reading, writing, and speaking the language.

V. HISTORY.

The course in History includes a survey of the History of the United States, of England, of Greece, and of Rome. The aim is to acquaint the student with the life, the genius, the institutions, and

the achievements of the respective peoples, and their part in the wider history of mankind.

Additional courses are offered in Ancient, Mediæval, and Modern History, and extra courses in the historical readings required of applicants for examination and registration as students at law by the Supreme Court of Pennsylvania.

Civil Government is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments, the political history of the people, the interpretation and construction of the Constitution, are presented and discussed.

VI. MATHEMATICS.

Arithmetic. To students who are fitting themselves for business, a course is given in practical business Arithmetic, involving all the ordinary problems and practices in the business world. To those who are preparing for college or for teaching, instruction is given in the theory and science of Arithmetic. Pupils are expected to master the principles and then to formulate their own rules.

Algebra. The Third Form course extends through one year, and includes a knowledge of the fundamental principles, Factoring, Divisors, and Multiples, Fractions, Equations, Involution, Evolution, Theory of Exponents, Radicals, and Quadratic Equations. Daily blackboard work serves to apply the principles taught. The student is required both to know the methods of the solution of problems and also to explain the operation to the class.

The First Form takes up Algebra for the first two terms. The work is intended to give the pupils a knowledge of algebraic principles and to assist them in their Arithmetic. The third term is devoted to Concrete Geometry and Mechanical Drawing.

Plane and Solid Geometry. The instruction consists in daily recitations for three terms on the Theorems and Problems given in the text-book, with original demonstrations of the same propositions by the students from hints and figures given in the classroom. Besides this, considerable attention is given to the solution of original Propositions, and the application of principles thus learned to the solution of numerical problems.

Book-keeping. A practical introduction to the science of accounts is secured in the term devoted to mastering the principles of Double Entry Book-keeping. Careful attention is given to

business forms, to the usages of Banks, and to the elements of Commercial Law. The subject may be pursued in its more extended and intricate applications, as an elective, by properly qualified students.

VII. SCIENCE.

Physical Geography lays a foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The subject is illustrated by drawings, photographs, colored and relief maps, and specimens from the Museum.

Botany is taught by text-books, field exercise, plant analysis, and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

Physiology. Every effort is made to impart clear ideas of the structure, parts and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics. Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin, and preparations are used in class.

Physics. The student is grounded in the elements of mechanics and physics. The apparatus of the College Laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiments, review, and repeated examination. The truth of principles is proved, except where the demonstration involves mathematics of the higher course in College.

Astronomy. Descriptive Astronomy discusses the earth's relations to the solar system, the masses, motions, and orbits of each member of it; the causes and consequences of the motions of the earth; general boundaries of the constellations of the Zodiac and northern heavens; the theories of comets, meteors, and nebulæ.

Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

Geology. The student masters the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked, to produce changes are considered.

VIII. ORATORY.

Class Exercises. Members of the Fourth Form prepare and deliver one original oration each term. All other students have regular exercises in Composition and Declamation throughout the year. Public exercises are held before the faculty and students of the Academy. Visitors are cordially invited to these exercises.

In addition to the private rehearsals for the work above indicated, students in the Third Form receive daily instruction in elocution during the Fall term. The course includes careful drill in the Elementary sounds, in Articulation, and in expression; in Analytical Reading, including the Bible and Hymns; and the reading of Shakspere.

IX. SPECIAL BRANCHES.

Bible Study. The study of the Bible is pursued as a regular weekly recitation throughout the First, Second, and Third Forms, in all Courses of study. A scheme of study is arranged at the beginning of each year. It is intended that the successive schemes for the various years of the course will cover the Life of Christ, the historical portions of the Old Testament foreshadowing the Christ, and the history of the Apostolic Church.

The Study of Music may be pursued by Academic students under the instruction of Professor E. Aviragnet and his assistants, of the School of Music.

Drawing. All students of the Academy may receive throughout the year weekly lessons in Free-hand Drawing and Penmanship

without extra charge. Special individual instruction in Drawing in the Art Studio is afforded at twenty-four dollars per annum.

X. HEALTH AND PHYSICAL CULTURE.

The Tustin Gymnasium affords opportunity for physical exercise. The Directors of the Gymnasium give regular class exercises to the students of the Academy. Attendance upon physical training in the Gymnasium is obligatory during the Winter Term.

The Athletic Association of the Academy has been formed to encourage and regulate athletic sports. The Association is allowed to arrange match games with other similar bodies by first securing the consent of the Principal.

PUBLIC EXHIBITIONS.

THIRD FORM.

The Public Exhibition in Declamation by the Third Form will take place on Saturday evening, April 27th, 1907, in Bucknell Hall.

FOURTH FORM.

The closing exercises of the Academy will be the Public Exhibition in Oratory of the Fourth Form, on June 15th, 1907.

Diplomas and Certificates will be conferred Tuesday afternoon, June 18th, 1907.

GENERAL INFORMATION.

ADVANTAGES.

To the student seeking preparation for College, the Academy offers unusual inducements. Its proximity to the College secures to him an atmosphere of study, acquaintance with the guides and companions of his future course, and the benefit of numerous literary exercises to be found only in College towns. He has access to the College Library and Reading Room. The Academy is designed to fit pupils thoroughly for College and Technical Schools, and to lay broad and solid foundations for all subsequent scholarly culture and for the successful conduct of every-day affairs.

GOVERNMENT.

Students are encouraged to regard self-government as the only true government. It will be the constant endeavor to secure uprightness of character, gentlemanly deportment, and diligent application to work, by kind treatment, and high standards in conduct and study.

I. ADMINISTRATION.

1. The general control of the Academy is vested in the President of the University.

2. The government of the Academy, subject to such control, rests with the Principal of the Academy.

3. The government of each Hall is vested in the Instructor in charge, who resides in the Hall and enforces regulations for the Hours of Study, Academy Property, Hygienic Precautions, and General Deportment, and such other prudential regulations as may be ordered by the joint concurrence of the President of the University and the Principal of the Academy.

4. Each Instructor shall have charge of his classes with reference to attendance upon recitations. He shall report to the Principal cases of non-attendance, and inexcusable failure on the part of students to prepare regular lessons or special work assigned.

II. VIOLATION OF RULES.

1. Any officer of the Institution becoming cognizant of any violation of the regulations by any pupil shall report the same to the Principal of the Academy, who shall make a record of the fact in a book provided for the purpose.

2. Every violation of the laws and prudential regulations of the Academy will subject the offender to a penalty of demerits, graded according to the flagrancy and frequency of the offense.

3. When the sum of a pupil's demerits equal ten it shall be the Principal's duty to notify the parent or guardian of the offender, specifying the offense; for every additional ten demerits like notification shall be made.

4. Additional disciplinary penalties in the form of reprimand, "campus," suspension, dismissal, or expulsion, according to the necessities of the case, will follow repeated violations.

BUILDINGS AND ROOMS.

The Academy Buildings are described in detail in the introductory pages of the Catalogue.

The Main Building contains, besides its accommodations for other school and boarding purposes, rooms for students. The rooms are designed to accommodate two students each, and are twenty feet by twelve feet, and fourteen feet high. They are subdivided into a study room twelve feet by ten feet, and a sleeping room nine feet square.

The East Hall contains combined study and sleeping rooms, each designed for two students. These rooms are fifteen feet by twelve feet, with high ceilings, and contain two commodious closets and two single wire mattress beds with all necessary furniture.

UNFURNISHED ROOMS.

The Academy has a number of unfurnished rooms for the accommodation of students of mature years and of limited means. No attention by servants is given to these rooms. Two students occupy a study room in common. The sleeping rooms are provided with single bedsteads with wire mattresses and electric lights are supplied to both sleeping rooms and study for which there is a slight additional charge. All other furnishing is to be done by the occu-

pants. While second-hand articles of furniture may be obtained here, it will be to the student's advantage to bring from home bedding and carpets. The dimensions of the study rooms are ten feet by twelve feet; of the sleeping rooms, nine feet by nine feet.

ARTICLES REQUIRED.

Each student should be provided with an umbrella, overshoes, table napkins, towels, soap, and other articles usually required for personal comfort. All articles for the laundry should be marked with the owner's name.

BOARDING.

All students from a distance will occupy rooms and will board in the Academy, except for reasons jointly satisfactory to the President of the University and the Principal of the Academy.

The Principal and his family, the Instructors, and the Matron live in the building, take their meals with the boarders, and strive in all possible ways to secure the welfare and happiness of the students. The Instructors occupy rooms adjacent to the students' apartments. The appointments of the Dining Room, the character of the table supplies, the household service in general, are designed to furnish the comforts of a first-class boarding-house. So far as may be warranted by the deportment of the students, there will be absent from the home-life of the school all needless uniformity and irksome limitations, which disregard the reasonable individual preference of pupils.

The Academy gives to furnished rooms daily and complete attention, provides and washes all bedding and bed clothing, and supplies and cares for all lights.

Engagements for board and rooms are expected to continue without change to the end of the school year for which they are made.

APPLIANCES.

The Academy is in possession of excellent apparatus for instruction. A select Reference Library, containing Encyclopedias, Lexicons, Dictionaries, Atlases, and various other helps, is accessible to students at all hours. The Classical Recitation Rooms are provided with Kiepert's Wall Maps of Ancient Geography, and with Reinhard's Album of Ancient Antiquities, mounted. Metric apparatus, Maps and Globes render assistance in other directions.

The apparatus of the College also is accessible to the classes for purposes of experiment and illustration.

The College Library, numbering thirty thousand volumes, is available for all students.

SCHOOL-ROOM.

In order to insure favorable conditions of study, the Academy maintains a commodious and well-appointed school-room. The school life centers in this room. Here, except when engaged in recitations, day students prepare their work, unless excused for a part of the time, for good cause; here, also, all the younger students of the lower forms prepare for their recitations. Advanced students and those of maturer years, who have acquired habits of independent study, are granted the privilege of preparing part of their work in their rooms, provided that they maintain high scholarship and excellent deportment.

HOURS.

The time devoted to study and recitation amounts to nine hours every week-day, except Saturday, when it is only two hours. This time should be sacred to its purpose. Parents of day pupils are requested to coöperate with the school in securing attention to evening study hours, and to avoid furnishing occasions or granting excuses for absence.

Students from a distance should be in Lewisburg on the day preceding the opening of each term, and no student should leave until the term has closed. Punctuality in attendance is essential to success in school work.

For terms and vacations, see the Calendar of the University.

STANDING AND PROMOTIONS.

The weekly averages of marks for recitations are recorded, and also failures in conduct and attendance. The scale for such markings range from 10, or perfect, to 0, or inexcusable failure. Unexcused absences count as zero.

Monthly and term examinations are held in the studies thus far completed, and term reports of the average in scholarship, attendance, and conduct of each student are sent to parents or guardians by the Principal.

No student is promoted to the next higher class whose grade in any study is less than 7.

Students who complete the Preparatory Courses of Study are admitted to standing in corresponding divisions of the Freshman Class in the College, upon the Principal's certificate, without examination.

All students who complete in a satisfactory manner any of the Courses of Study, and who have sustained irreproachable character during their school residence, shall be entitled to the diploma of the Academy.

Students attaining an average standing of 9 are encouraged to take work additional to the Regular Courses of Study.

PRIZES.

THE HARRY S. HOPPER PRIZE.

Mr. Harry S. Hopper, of Philadelphia, Chairman of the Board of Trustees, offers an annual prize for excellence in Composition.

This prize for 1906 was awarded to Max C. Wiant.

THE REV. DAVID PORTER LEAS PRIZE.

Rev. David P. Leas, of Philadelphia, Treasurer of Bucknell University, offers an annual prize to that member of the Third Form who shall excel in the Annual Exhibition of the Third Form in Declamation.

This prize for 1906 was awarded to Arthur Stewart Wahl.

THE WILLIAM E. MARTIN PRIZE.

Principal Thomas offers an annual prize, named in honor of Professor William E. Martin, to that member of the Fourth Form who shall pronounce the best oration at the Academic Graduating Exhibition.

This prize for 1906 was awarded to Max C. Wiant.

LITERARY SOCIETY.

This is a voluntary organization of students for mutual improvement in literary and oratorical exercises. It has a large and convenient hall in the Main Academy Building, where meetings are held on Friday evenings.

RELIGIOUS SERVICES.

The duties of each day are opened with devotional exercises, which all students are required to attend. Devotional exercises are also held every evening, just before the evening study hour. All academic students residing on the University campus are required to attend these exercises.

Regular attendance at Sunday school and upon public worship at some church on Sunday morning, is required; also upon services on Thanksgiving Day, and the Day of Prayer for Colleges. Attendance upon Christian Endeavor or other like Young People's Society, and the mid-week prayer-meetings, while voluntary, is strongly urged upon students.

Parents or guardians are requested to indicate to the Principal the church which they desire their sons or wards to attend.

The Academy students maintain a branch of the Young Men's Christian Association, which hold a weekly prayer-meeting on Tuesday evenings, and song and praise meeting on Sunday evenings.

EXPENSES OF ACADEMY STUDENTS.

EAST HALL.

	Per annum.
Tuition, Board, Furnished Room, Heat, Light, Care, Washing and Incidentals	$245 00

MAIN HALL.

Tuition, Board, Unfurnished Room, Heat, Washing, and Incidentals	205 00
Tuition and Incidentals to day pupils	65 00

A student engaging a room is required to make a deposit of ten dollars. This amount is credited upon the regular term bills. Should a student for good reason be unable to return, the deposit will be refunded, provided notice is sent to the Registrar not less than four weeks before the opening of the term for which the room is engaged.

All charges are payable to the Registrar of the University in advance, at the beginning of each term, that is, by the 25th of September, 10th of January, and 10th of April.

No student is entitled to his place in his class until he has made settlement for the term bills.

An extra charge will be made for washing more than twelve pieces per week.

Students who remain in the Academy during the holiday or spring vacation will be charged at the rate of $4.50 per week. Table boarders will be charged the regular rate, $3.00 per week.

Free scholarships covering tuition are provided in all the departments of the University for the children of Ministers of the Gospel *in actual service.* Tuition is rated at $36 a year.

The expenses for Music and Printing for Exhibitions and Anniversary occasions are paid by the classes for which such expenses are incurred.

For information respecting the Academy, address the President of the University, or the Principal, Benjamin F. Thomas, A. M.

THE INSTITUTE.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY.

THOMAS ALPHEUS EDWARDS, A. M.,
DEAN OF THE DEPARTMENT FOR WOMEN,
AND INSTRUCTOR IN PSYCHOLOGY AND ETHICS.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,
DIRECTOR OF THE SCHOOL OF MUSIC.

EMMA LOUISE BUSH, A. B., PRECEPTRESS,
TEACHER OF GERMAN.

GRACE SLIFER, A. M.,
TEACHER OF LATIN AND ENGLISH.

MARY ANN HURSH UNGER, A. B.,
TEACHER OF ENGLISH AND HISTORY.

EDITH SCHILLINGER,
TEACHER OF ELOCUTION AND GYMNASTICS.

EDITH J. METCALF,
TEACHER OF INSTRUMENTAL MUSIC.

RUTH ANGELINE BOTTORF,
TEACHER OF INSTRUMENTAL MUSIC.

MARY ELIZABETH BOYNTON,
TEACHER OF INSTRUMENTAL MUSIC.

WINIFRED GRACE ISAAC,
TEACHER OF VOCAL MUSIC.

EMMA GRIER GEARHART,
TEACHER OF VOCAL MUSIC.

MARTIN LINNAEUS DRUM, PH. B.,
TEACHER OF MATHEMATICS.

PHARES GROSS HESS, A. B.,
TEACHER OF SCIENCE.

WILHELMINA M. DARLINGTON,
TEACHER OF ART.

HENRY TAYLOR MEYER, A. B.,
TEACHER OF ENGLISH.

WILLIAM CHRISTIAN GRETZINGER, A. M.,
REGISTRAR.

DIRECTORY OF THE ALUMNÆ.

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648 N. Fifty-sixth Street, Philadelphia.

The Dean of the Department for Women will esteem it a favor if any graduate who changes her residence will give notice of her new address. He will also be grateful for any information that will assist in making the directory of the graduates and former students complete.

GRADUATES, CLASS OF 1906.

NAME.	RESIDENCE.
Katherine Beckley,	Lewisburg
Hannah Fairchild Derr,	Steelton
Grace Griffiths,	Lewisburg
Ruth Alma Kerstetter,	Lewisburg
Katherine Holzer Sanner,	Frackville
Louise Essick Savidge,	Sunbury
Leonora Mae Shamp,	Lewisburg
Beatrice P. Weill,	Lancaster
Amelia Margaret Wensel,	Lewisburg

NAMES OF STUDENTS.

GRADUATE STUDENTS.

NAME.	RESIDENCE.	ROOM.
Eva Irene Ginter,	*Lewisburg.*	Market Street
Margaret Groff,	*Lewisburg.*	Lewisburg
Sarah Ethel Judd,	*Lewisburg.*	University Avenue
Rachel May Kunkel,	*Bucknell.*	Bucknell
Fannie Drue Logan,	*Sunbury.*	Sunbury
Leonora Mae Shamp,	*Lewisburg.*	St. Catharine Street
Dorothy Walls,	*Lewisburg.*	South Third Street

THE SENIOR CLASS.

Harriet Kremer Bower,	*Lewisburg.*	South Sixth Street
Mary Matilda Brown,	*Lewisburg.*	Lewisburg

NAME.	RESIDENCE.	ROOM.
ELIZABETH LEONE BROWN,	*Allegheny.*	Women's College
SADIE EMERSON BURGESS,	*Sadieville, Ky.*	Women's College
RUTH YOUNG CHAPIN,	*Milton,*	Milton
FRANCES GROFF,	*Lewisburg.*	Lewisburg
HELEN HARE,	*Lewisburg.*	University Avenue
EMILY HEATON,	*Milton.*	Milton
MARY HEATON,	*Milton.*	Milton
ADA ELLEN MOORE,	*St. Clair, Mo.*	South Third Street
MILDRED JESSIE SHAFFER,	*Lewisburg.*	Lewisburg

THE FOURTH YEAR CLASS.

HAZEL L. BODINE,	*Merchantville, N. J.*	Women's College
ALMA MARGARET DIETRICH,	*Madisonville.*	Women's College
ANNA JOSEPHINE DERR,	*Lewisburg.*	Market Street
CHARLOTTE MAY HAWK,	*Tower City.*	Women's College
MARY ANNA KLINE,	*Sunbury.*	Sunbury
JESSIE CLAIRE MCCOOL,	*Pottsgrove.*	Women's College
LAURA ELLEN MCGANN,	*Lewisburg.*	South Third Street
EDNA ANNE MILLER,	*Montrose*	Women's College

NAME.	RESIDENCE.	ROOM.
CAROL FRANCES SPRATT,	*Lewisburg.*	North Third Street
MARGUERITE WATROUS,	*New York City.*	North Third Street

THE THIRD YEAR CLASS.

EMMA MINCH CLEMENT,	*Mt. Ephraim, N. J.*	Women's College
BESSIE NEWTON CONDICT,	*Trenton, N. J.*	South Third Street
ANNA KALER DREISBACH,	*Lewisburg.*	South Third Street
EUDORA REGINA HAMLER,	*Lewisburg.*	Market Street
MYRA ALVENA HIGH,	*White Deer,*	White Deer
ERNESTINE SUSANNA HYATT,	*Lewisburg.*	North First Street
ELIZABETH BUDD MULFORD,	*Bridgeton, N. J.*	Women's College
BERTHA REED PFLEEGOR,	*Montandon.*	Montandon
LUCILE SAVIDGE,	*Sunbury.*	Sunbury
ANNETTE AMELIA STAHL,	*Lewisburg.*	Market Street
HELEN ELIZABETH STURR,	*Elmer, N. J.*	Women's College
RUTH FURMAN TIPPETT,	*Sparrow's Point, Md.*	Women's College
ELIZABETH R. WEDDELL,	*Rillton.*	Women's College

THE SECOND YEAR CLASS.

HELEN KING BARTOL,	*Lewisburg.*	University Avenue

NAME.	RESIDENCE.	ROOM.
BESSIE ELIZABETH BRAUCHT,	*East Waterford.*	Lewisburg
HANNAH BARTON BUBB,	*Lewisburg.*	University Avenue
FRANCES THERESA CRONIN,	*Plymouth.*	Women's College
MARGUERITE DUNCAN,	*Lewisburg.*	South Second Street
ELLEN WOLFE FOCHT,	*Lewisburg.*	South Second Street
MARIA AGNES SPYKER,	*Lewisburg.*	North Third Street

THE FIRST YEAR CLASS.

MARY EVA BRIGHT,	*Rebersburg.*	Women's College
HELEN MAY BROWN,	*Lewisburg.*	Lewisburg
MARY HULLEY,	*Lewisburg.*	South Fourth Street
RUTH BARBER MOHN,	*Lewisburg.*	South Third Street
DOROTHY WOLFE,	*Lewisburg.*	St. George Street

PURSUING SELECT STUDIES.

MARY ETTA ANDERSON,	*Reed's Gap.*	Women's College
JULIA ELLA ANDREWS,	*Powell.*	Women's College
ALICE AMBLER ARMSTRONG,	*Merchantville, N. J.*	Women's College
LOIS MARY BROWN,	*Lewisburg.*	Lewisburg
HARRIET C. BURROWS,	*Sunbury.*	Sunbury

Mary Elizabeth Davison, *Danville.*	Women's College
Mary Edna Deitrich, *Madisonburg.*	Women's College
Fannie Derr, *Lewisburg.*	Market Street
Mildred Masters Eves, *Millville.*	Millville
Therza Bell Hawke, *Confluence.*	Women's College
Adalene Bing Holland, *DuBois.*	Women's College
Marie Humphrey, *Brookville.*	Women's College
Martha Scott Irwin, *Allenwood.*	Allenwood
Jane Levina Jordan, *Kane.*	Women's College
Harriet Yarger Keiser, *Lewisburg.*	Lewisburg
Jessie Theresa Kremer, *Lewisburg.*	North Third Street
Clara J. Pauling, *West Milton.*	West Milton
Grace Catherine Raper, *Lairdsville.*	Women's College
Sue D. Schaeffer, *Reading.*	Women's College
Mary E. Starook, *Lewisburg.*	Lewisburg
Lou Lillian Swalm, *Tower City.*	Women's College
Ada Rosalie Swartz, *Altoona.*	Women's College
Mary Ellen Swartz, *Altoona.*	Women's College
Lulu Thomas, *Philipsburg.*	Women's College

Lola Miriam Ulrich,	*Penn Hall.*	Women's College
Harriet Lavine Wilson,	*Frankford.*	Women's College
Dora Emma Zeitler,	*Punxsutawney.*	Women's College

SUMMARY.

Graduate Students	7
Senior Class	11
Fourth Year Class	10
Third Year Class	13
Second Year Class	7
First Year Class	5
Pursuing Select Studies	27
Students in Art and Elocution not otherwise counted	8
Total	88

COURSES OF STUDY.

The Bucknell Institute offers to young women three courses of study, each extending over five years. Students are admitted to advanced standing, if upon examination they are found to have satisfactory knowledge of the branches which the class they propose to enter has already completed.

Credentials from Graded Schools are accepted in the studies of the First and Second Years.

Credentials are accepted for the Third and Fourth Years from schools whose curricula are equivalent to that of Bucknell Institute; also from accredited private teachers, in studies which are *continued* after entrance.

I. THE LITERARY COURSE.

The Literary Course embraces, in MATHEMATICS, Arithmetic, common and advanced, Algebra and Geometry, plane and solid, and Higher Algebra with Trigonometry and Analytical Geometry as electives; in LATIN four years; in GERMAN, two years, and a third year elective with FRENCH; in FRENCH one year; and in ITALIAN and SPANISH, an optional course; in SCIENCE, Physical Geography, Botany, Astronomy, Physics, Physiology, Chemistry, and Geology. In these branches the students have the advantages afforded by the College Observatory, Laboratory, and Museum. The course also includes Rhetoric, Composition, Civil Government, Psychology, Ethics, and History of Art.

Special attention is given to History and Literature, to the former of which six and to the latter of which three terms are devoted, besides the reading of English and American authors required for admission to College.

Graduates of the Institute in the Literary Course, upon the completion of eighteen courses of additional work in the College of Liberal Arts, may receive the degree of Bachelor of Letters.

II. THE CLASSICAL COURSE.

The Classical Course embraces in MATHEMATICS, Arithmetic, Algebra, Geometry, plane and solid, University Algebra, Trigonometry and Analytical Geometry; in LATIN, Grammar and Composi-

tion, Cæsar, Vergil, Cicero's Orations, Ovid, Cicero *de Senectute et de Amicitia,* Livy, and Velleius, in all, five years; in GREEK Grammar and Composition, Xenophon's Anabasis, Homer's Iliad, Lysias' Orations, Plato's Apology, Homer's Odyssey, and the Greek Testament, in all three years; in HISTORY, General History, and Greek and Roman History.

Students who complete the Classical Course are admitted to the Sophomore Class in College as candidates for the first degree in Arts.

III. THE LATIN SCIENTIFIC COURSE.

The Latin Scientific Course corresponds to the Classical course except that scientific subjects are substituted for the first two years of Greek, and German for the third year of Greek.

Students who complete the Latin Scientific course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

Students in the fifth year Classical or Latin Scientific course recite to the professors in the College.

Students who do not wish to pursue a course of study may elect such subjects in connection with the recitations of the regular classes as they may be qualified to pursue.

AGE REQUIREMENT FOR ADMISSION.

The required age for admission to the first-year class or to pursue select studies is twelve years, and a proportionate increase of age for admission to advanced classes.

CURRICULA.

Arabic numerals indicate the number of recitations a week in each subject.

I. THE LITERARY COURSE.

FIRST YEAR.

I. Term—	Algebra, 5, Latin, 5, History, 5,	English, 4, Bible, 1.
II. Term—	Algebra, 5, Latin, 5, Drawing, 5,	English, 4, Bible, 1.
III. Term—	Geometry, 5, Latin, 5, History, 5,	English, 4, Bible, 1.

SECOND YEAR.

I. Term—	Higher Arithmetic, 5, Cæsar, Introduction, 5, Ancient History, 5,	Rhetoric, 4, Bible, 1.
II. Term—	Book-keeping, Commercial Arithmetic, 5, Cæsar, 5,	Ancient History, 5, Literature, 4, Bible, 1.
III. Term—	Physical Geography, 5, Cæsar, 5, Ancient History, 5,	Literature, 4, Bible, 1.

THIRD YEAR.

I. TERM—Algebra, 5,
Cæsar, 5,
German, 5, *or*
History of England, 5,

Elocution, 4,
Bible, 1.

II. TERM—Algebra, 5,
Cicero, 5,
German, 5, *or*
Civics, 5,

Literature, 4,
Bible, 1.

III. TERM—Algebra, 5,
Cicero, 5,
German, 5, *or*
Botany, 5,

Literature, 4,
Bible, 1.

FOURTH YEAR.

I. TERM—Geometry, 5,
Vergil, 5,
Cicero, 5,

German, 5, *or*
Physiology, 5, *or*
Chemistry, 5.

II. TERM—Geometry, 5,
Vergil, 5,
{ Cicero, } 5,
{ Ovid, }

German, 5, *or*
Astronomy, 5.

III. TERM—Physics, 5,
Vergil, 5,

German, 5, *or*
Geology, 5.

SENIOR YEAR.

I. TERM—Psychology, 5,
English Literature, 5,
French, 5, *or*
German, 5, *or*
Solid Geometry, 5,

Bible, 1,
Composition, 1,
Elocution, 1.

II. Term—English Literature, 5, History of Art, 5, *or* French, 5, *or* German, 5, *or* Algebra, 5, — Bible, 1, Composition, 1, Elocution, 1, Physical Culture, 5.

III. Term—Ethics, American Literature, French, *or* German, *or* Trigonometry, — Bible, 1, Composition, 1, Elocution, 1.

II. THE CLASSICAL COURSE.

FIRST YEAR.

I. Term—Algebra, 5, Latin, 5, History, 5, — English, 4, Bible, 1.

II. Term—Algebra, 5, Latin, 5, Drawing, 5, — English, 4, Bible, 1.

III. Term—Geometry, 5, Latin, 5, History, 5, — English, 4, Bible, 1.

SECOND YEAR.

I. Term—Higher Arithmetic, 5, Cæsar, Introduction, 5, Ancient History, 5, — Rhetoric, 4, Bible, 1.

II. Term—

{ Book-keeping, Commercial Arithmetic, 5, } Cæsar, 5, — Ancient History, 5, Literature, 4, Bible, 1.

III. Term—Physical Geography, 5, Cæsar, 5, Ancient History, 5, — Literature, 4, Bible, 1.

THIRD YEAR.

I. TERM—Geometry, 5, Cæsar, 5, Greek, 5, | Elocution, 4, Bible, 1.

II. TERM—Algebra, 5, Cicero, 5, Greek, 5, | Literature, 4, Bible, 1.

III. TERM—Algebra, 5, Cicero, 5, Greek, Anabasis, 5, | Literature, 4, Bible, 1.

FOURTH YEAR.

I. TERM—Geometry, 5, Vergil, 5, | Cicero, 5, Greek, Anabasis, 5.

II. TERM—Geometry, 5, Vergil, 5, | { Cicero, / Ovid, } 5, Iliad, 5.

III. TERM—Physics, 5, Vergil, 5, | Iliad, 5, Anabasis, 5.

SENIOR YEAR.

I. TERM—Solid Geometry, 5, Cicero de Senectute, 5, { Odyssey, / Greek Prose Compositions, 5, | Bible, 1, Composition, 1, Elocution, 1.

II. TERM—Algebra, 5, Livy, 5, { Lysias, / Greek Testament, 5, | Bible, 1, Composition, 1, Elocution, 1, Physical Culture, 5.

III. TERM—Trigonometry, 5, Velleius and Pliny, 5, { Plato, / Greek Testament, 5, | Bible, 1, Composition, 1, Elocution, 1.

III. THE LATIN SCIENTIFIC COURSE.

FIRST YEAR.

I. Term—	Algebra, 5, Latin, 5, History, 5,	English, 4, Bible, 1.
II. Term—	Algebra, 5, Latin, 5, Drawing, 5,	English, 4, Bible, 1.
III. Term—	Geometry, 5, Latin, 5, History, 5,	English, 4, Bible, 1.

SECOND YEAR.

I. Term—	Higher Arithmetic, 5, Cæsar, Introduction, 5, Ancient History, 5,	Rhetoric, 4, Bible, 1.
II. Term—	{ Book-keeping, Commercial Arithmetic, 5, Cæsar, 5,	Ancient History, 5, Literature, 4, Bible, 1.
III. Term—	Physical Geography, 5, Cæsar, 5, Ancient History, 5,	Literature, 4, Bible, 1.

THIRD YEAR.

I. Term—	Algebra, 5, Cæsar, 5, German, 5, *or* History of England, 5,	Elocution, 4, Bible, 1.

II. TERM—Algebra, 5,
Cicero, 5,
German, 5, *or*
Civics, 5,

Literature, 4,
Bible, 1.

III. TERM—Algebra, 5,
Cicero, 5,
German, 5, *or*
Botany, 5,

Literature, 4,
Bible, 1.

FOURTH YEAR.

I. TERM—Geometry, 5,
Vergil, 5,
Cicero, 5,

German, 5, *or*
Physiology, 5, *or*
Chemistry, 5.

II. TERM—Geometry, 5,
Vergil, 5,
{ Cicero, / Ovid, } 5,

German, 5, *or*
Astronomy, 5.

III. TERM—Physics, 5,
Vergil, 5,

German, 5, *or*
Geology, 5, *or*
Solid Geometry, 5.

SENIOR YEAR.

I. TERM—Solid Geometry, 5,
Cicero de Senectute, 5,
German, 5,

Bible, 1,
Composition, 1,
Elocution, 1.

II. TERM—Algebra, 5,
Livy, 5,
German, 5,

Bible, 1,
Composition, 1,
Elocution, 1,
Physical Culture, 5.

III. TERM—Trigonometry, 5,
Velleius and Pliny, 5,
French, 5,

Bible, 1.
Composition, 1,
Elocution, 1.

METHODS OF INSTRUCTION.

I. PSYCHOLOGY AND ETHICS.

Psychology is taught by text-book and informal lectures. The relation of Psychology to education is made a special feature of the course.

The aim in the Course in Ethics is to make the instruction as practical as possible. Theses on problems in Ethics are required of each student taking the subject, in addition to recitations from text-books.

II. LITERATURE AND ART.

Literature is taught by topical outlines, the elaboration of which depends upon a sympathetic study of the masterpieces in connection with the lives and times of the writers. The subject is so presented that a vital experience results rather than an empty form of knowledge. The object of the course is to cultivate and ennoble the emotions, to stimulate the imagination, and to reinforce the will with strong and exalted motives.

The History of Art is offered in the Senior Year, Literary Course. The aim of the course is to give a general knowledge of the development of art and lead to an acquaintance with individual artists and their work. Some attention is given to the theories concerning the origin of the art-impulse itself, and the law of the mental evolution which has governed the history of art.

III. HISTORY.

History. Six terms are devoted to this study. The course embraces General History, the History of the United States, of England, of Greece, and of Rome. Efforts are made to show the learner that History is not mere facts in chronological order, but a record of the development of civilization.

Civil Government. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments, the political history of the people, the interpretation and construction of the Constitution, are discussed.

IV. THE ENGLISH LANGUAGE.

English Grammar. The aim is to train the pupils to speak and write the English language with accuracy and force.

Rhetoric is taught as a practical aid to English Composition. Daily exercises in composition are required.

English Composition is required throughout the course. Classes in Composition meet weekly for general criticism and the assignment of work. One essay is required from each student monthly, and an exercise in rapid and concise writing is required weekly.

V. THE LATIN LANGUAGE.

Paradigms of Declension and Conjugation with the Principles of Syntax, are introduced gradually, after many illustrations. English sentences are translated into Latin, readiness in Latin Composition and a correct style being thus acquired.

The following courses are offered: 1. Latin Grammar and Lessons; 2. Eutropius; 3. Cæsar, Gallic War; 4. Vergil, Æneid; 5. Cicero, Orations; 6. Ovid; 7. Cicero, *de Senectute*, and Livy; 8. Livy, Books XXI and XXII; 9. Velleius and Pliny.

VI. THE GREEK LANGUAGE.

The first half of the Third Year is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's Anabasis. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns, and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh her knowledge of Attic Greek, and may not find her transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

The following courses in Greek are offered to students in the Classical Course: 1. Greek Lessons; 2. Xenophon's Anabasis; 3. Homer's Iliad; 4. Lysias' Orations; 5. Homer's Odyssey; 6. Plato's Apology; 7. Greek New Testament.

VII. MODERN LANGUAGE.

1. **French, Italian, and Spanish.** The modern languages are taught by comparing them with the mother tongue of the pupil, if there be any relation between them. If there is none, they are compared with the Latin and Greek languages. In French, rules are taught by which the words that are not exactly the same in the two languages are easily made into French.

French Syntax is taught by examples and illustrations from readings. The grammar is taught from the language, and not the language from the grammar. Dictation exercises are given from Whitney's Practical French.

As far as practical only French is spoken in the class-room. Extracts are read from the best French literature. Conversations are held in French on the readings, stories are related, and compositions prepared in French by the pupil.

The aim is to teach the modern languages so that they can be spoken correctly.

The same method is used in teaching Spanish and Italian.

2. **German.** In the study of German the aim is to get knowledge of the language in an all-round way. This is accomplished not alone through the study of grammar and the translation of German into English, but by daily practice in conversation, the committing to memory of poems and idioms, and through an acquaintance with biography and the different phases of German life. As little English as practicable is used in the class-room. Throughout the course there is constant sight reading, translation at hearing, and translation from English into German.

The reading of the second year includes the best German authors studied in connection with Keller's History of German Literature.

VIII. MATHEMATICS.

Arithmetic. Two objects are considered in teaching the subject; first, to give the student a practical knowledge of all ordinary business problems and calculations; second, to develop her ability to think logically and rapidly. The memorizing of rules and mechanical processes is not required, but independent thought, logical analysis and neatness, clearness and accuracy in all written work are demanded. A drill in Mental Arithmetic is combined with the required work of the text-book.

Elements of Algebra. Three terms are given to this subject. There is thorough drill in the fundamental operations, and the idea that these are simply the applications of arithmetical processes to symbols of general value is kept constantly in mind. The course includes Quadratic Equations, Theory of Exponents, Variations, and Series.

Geometry. The course includes Plane and Solid Geometry. Besides the demonstrations of Theorems given in the text-book, original demonstrations and the solution of problems are required.

Higher Algebra. The topics discussed are: Progressions, Theory of Limits, Differentiation, Development of Functions into Series, Convergency and Summation of Series, Logarithms, Compound Interest and Annuities, Permutations and Combinations, Probability, Continued Fractions, and the Theory of Equations.

Trigonometry. The course includes Plane and Spherical Trigonometry. Time is given to the numerical illustrations of principles for the purpose of making sure that the meaning and use of formulæ demonstrated and learned are thoroughly understood.

Analytical Geometry. The student is taught the elementary properties of the right line and the conic sections. The course is intended to give a clear conception of the methods of Cartesian Analysis, rather than an extensive knowledge of its results.

IX. SCIENCE.

Physics. The student is thoroughly grounded in the elements of mechanics and physics. The historical beginnings of each subject, and subsequent developments, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the higher mathematics. The apparatus of the College is available for class use.

Astronomy. Descriptive Astronomy discusses the earth's relation to the solar system; the masses, motions, and orbits of each member; the causes and consequences of the motions of the earth; general boundaries of the constellation of the Zodiac and Northern Heavens; the accepted theories of comets, meteors, and nebulæ. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

Physical Geography lays a broad foundation for subsequent work in all sciences. Special attention is given to the physical features of the United States. Drawings, photographs, colored and relief maps, and specimens from the Museum and field work aid to make the subject clear.

Geology. The student is required to master the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work are considered.

Botany is taught by text-book and field work. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. Lectures explaining special forms of vegetable growth, and the flora of this country, complete the work.

Physiology. Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, and the effects of stimulants and narcotics. Suggestions are also made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. The subject is illustrated by the use of a manikin, charts, and preparations.

Descriptive Chemistry is taught by text-books, lectures, and experiments. The object of the course is to give the student a general knowledge of the common elements, their sources, uses, compounds, and behaviour towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reaction taking place.

PHYSICAL CULTURE.

The health of the students is made a prime object of attention, and sanitary requirements are carefully observed. The Institute Gymnasium is furnished with Indian clubs, dumb bells, wands,

rings, hoops, guns, wall pulleys, parallel bars, etc., and classes in Physical Culture are organized for the benefit of all students. The exercises practiced are such as tend to develop grace and strength. The Institute Campus of six acres furnishes facilities for exercises. Lawn Tennis and other outdoor games are encouraged, and exercise in the open air is required.

ÆSTHETIC CULTURE.

It is intended that the pupils of the Institute shall have the influence unconsciously received from painting, music, and refined surroundings, as well as direct instruction in Literature, Music, and Art. Special instruction in Music and Art is given in the schools devoted to those subjects.

SOCIAL CULTURE.

Pupils are trained to observe the usages of good society. Meetings of various organizations for improvement in Literature, Music, and Art and receptions in charge of the pupils add variety to student life. No effort is spared to give the pupils the advantages of a cultured home. The purpose is to develop the social life of the Institution within itself. Students are not permitted, during term-time, to visit in neighboring towns. The number of social functions during the term is limited, and the consent of the Dean must be obtained for each function at least one month before it is to occur.

RELIGIOUS TRAINING.

The Institute is distinctly Christian in its influence. Morning and evening Chapel in the Hall of the Institute building is attended by all students in the Institute courses, special students, and women pursuing studies in the School of Music. College women living in the Institute attend evening Chapel.

Attendance upon Sabbath school and church services in town is required. All students have weekly recitations in Inductive Bible Study. The students have organized several classes for Scripture study.

The Young Women's Christian Association, a voluntary society open to the officers and students of the Institute, meets weekly. The regular Tuesday evening prayer-meeting, missionary and temperance work, special Bible Classes and College Settlement work are in charge of this Association.

SPECIAL BRANCHES.

1. Italian and Spanish may be taken up as optional studies, under the instruction of M. Elysée Aviragnet.

All optional studies must be pursued in connection with the regular classes.

2. Bible instruction is given once a week throughout the entire course.

3. Essays are required of all students each month, and themes each week.

4. Two declamations are required of each student during each term.

5. Exercises in either Elocution or Reading are required once a week of all classes.

PUBLIC EXERCISES.

THE EXERCISES OF THE GRADUATING CLASS.

The Commencement Exercises of the Institute are held in the College Commencement Hall on Tuesday afternoon of Commencement week.

THE EXERCISES OF THE FOURTH YEAR CLASS.

The exercises of the Fourth Year Class, a combined musical and literary entertainment, are held in the Chapel of the Institute on the last Saturday evening in the month of April.

THE CONTEST IN ELOCUTION.

A contest in Elocution for the prize in that subject, open to all the members of the Institute, takes place in Bucknell Hall on the second Saturday evening in the month of May.

ALUMNÆ SOCIETIES.

The Alumnæ Association holds its anniversary on Monday afternoon of Commencement week.

The Lewisburg Alumnæ Club meets at the Institute on the second Tuesday of each month during term-time.

The Philadelphia Alumnæ Club is composed of graduates living in and near that city.

STUDENTS' LOAN SOCIETY OF BUCKNELL INSTITUTE.

In June, 1887, there was organized in connection with Bucknell Institute an association for the purpose of assisting young women of limited means to obtain an education. A fund was established by gifts from the Alumnæ and friends of the Institute. The money is loaned to beneficiaries, who obligate themselves to return it, *without interest,* as soon after their graduation as they may be able.

Before the organization of this Society, many promising students at Bucknell Institute were unable to finish the course of study because there was no provision for financial assistance.

Since 1887, but for the help of this Association, some of the best of our graduates would have been deprived of the training which has fitted them for the positions they now fill as teachers, authors, missionaries, and pastors' helpers.

During the first decade, twenty-four young ladies received aid. More than one half of these have returned the loan in full.

The Society meets in the parlors of the Institute on the first Wednesday afternoon after the opening of each term, at half-past two o'clock.

The annual meeting for the election of officers is held at the Institute on the first Wednesday after the opening of the winter term.

The payment of one hundred dollars constitutes the donor a Life Member of the Association; five dollars annually, an Active Member.

Contributions should be sent to the Treasurer, Mrs. T. H. Purdy, Sunbury, Pa. Any information will be given by the President, Mrs. Katherine B. Larison, Lewisburg, Pa. or Mrs. John T. Judd, Corresponding Secretary, Lewisburg, Pa.

DEPARTMENT OF ELOCUTION.

MISS EDITH SCHILLINGER.

This department is open to all members of the Institute. Its aim is the correct and effective utterance of thought. Special attention is given to Voice Culture, Articulation, including Pronunciation and Expression. Weekly Rhetoricals afford opportunity for platform work. Bible reading and study of Shakspere have places in the course. Special courses are offered to students who wish to take private lessons in elocution. Particular attention is given to curing persons of stammering and other defects in speech.

SPECIAL STUDENTS IN ELOCUTION.

NAME.	RESIDENCE.	ROOM.
DANA MELISSA BOWER,	*Elkhart, Ind.*	Women's College
LOIS MAY BROWN,	*Lewisburg.*	Lewisburg
HARRIET C. BURROWS,	*Sunbury.*	Sunbury
HELEN DITTING CLIBER,	*Hollidaysburg.*	Women's College
FANNIE DERR,	*Lewisburg.*	Market Street
WINNIE VIOLA DICKSON,	*Akron, Ohio.*	Women's College
ALVINA HARDT ENGLISH,	*Wellsboro.*	Women's College
EUDORA REGINA HAMLER,	*Lewisburg.*	Market Street
JOSEPHINE ADELAIDE HANKINS,	*Uniontown.*	Women's College
CHARLOTTE MAY HAWK,	*Tower City.*	Women's College
MYRA ALVINA HIGH,	*White Deer.*	White Deer
JENNIE HOPWOOD,	*Plymouth.*	Women's College
ERNESTINE SUSANNA HYATT,	*Lewisburg.*	North First Street

NAME.	RESIDENCE.	ROOM.
Mae Elizabeth Jones,	*Franklin.*	Women's College
Jessie Theresa Kremer,	*Lewisburg.*	North Third Street
Mrs. Charles C. Melick,	*Shamokin.*	Shamokin
Ursula Dawes Parmley,	*Mahanoy City.*	Women's College
Grace Catherine Raper,	*Lairdsville.*	Women's College
Sarah Matilda Ray,	*Pittsburg.*	Women's College
Grace Virginia Royer,	*Lewisburg.*	Lewisburg
Lucile Savidge,	*Sunbury.*	Sunbury
Lenora Mae Shamp,	*Lewisburg.*	St. Catherine Street
Annetta Amelia Stahl,	*Lewisburg.*	Market Street
Mabel Slout,	*Williamsport.*	Women's College
Katherine Snyder,	*Lewisburg.*	Market Street
Anna Stage,	*Clearfield.*	Women's College
Mary E. Starook,	*Lewisburg.*	Lewisburg
Erie Mae Teed,	*Oregon Hill.*	Women's College
Elizabeth R. Weddell,	*Rillton.*	Women's College
Ida Katherine Williams,	*Reynoldsville.*	Women's College

Students in Elocution, 30.

THE ART DEPARTMENT.

MISS WILHELMINA DARLINGTON.

The facilities for the study of Art have been greatly increased by the accommodations allotted to this Department, in a special studio, which provides such adjustments for admission of light, and unencumbered wall surface as to render it adapted for the execution and display of art productions.

For such students as desire opportunity for work preparatory to professional study, and to those who wish to fit themselves to give systematic instruction in drawing, the following course is provided:

First Year. Drawing in Pencil, Charcoal and Crayon from solid geometrical forms, and portions of the human figure, with the necessary elements of Perspective, the Laws of Proportion, and the Relations of Light and Shade.

Second Year. Drawings from the Antique in Coal, Crayon, Sepia, or Oil Monochrome; Modeling in Clay or Wax. Study in Color from Draperies and Still Life.

Third Year. Composition, Color in Landscape, Pen and Ink Drawing, and Painting in Color from Nature and from Life.

On the successful completion of this entire course, a certificate of proficiency will be awarded.

Students who do not desire the certificate course, and whose interest is in Decorative Work, will receive the requisite instruction in the latest methods—China Painting, Tapestry, Dyeing, and Applied Design in other mediums and materials.

Charges for instruction in Art are as follows:

	Per Annum.
Drawing	$24.00
Crayoning	33.00
Painting in Oil, Water Colors, Pastel, or on China.	60.00
	Per Lesson.
Special individual instruction in Painting	$1.00

Freehand Drawing is a part of the required work of the school without extra charge.

ART EXHIBIT.

On Saturday, Monday, and Tuesday of Commencement Week, a display of art products by the pupils of the School of Art is made in the Studio. At this time a committee of Art students receives and entertains all those who visit the Studio.

STUDENTS IN ART.

NAME.	RESIDENCE.	ROOM.
Mayme Anderson,	*Leechburg.*	Women's College
Julia Ella Andrews,	*Powell.*	Women's College
Helen Ditting Cliber,	*Hollidaysburg.*	Women's College
Mrs. Nelson F. Davis,	*Lewisburg.*	South Sixth Street
Marguerite Duncan,	*Lewisburg.*	South Second Street
Ellen Wolfe Focht,	*Lewisburg.*	South Second Street
Margaret Groff,	*Lewisburg.*	Lewisburg
Helen Mary Grove,	*Lewisburg.*	South Third Street
Emily Heaton,	*Milton.*	Milton
M..ry Heiser,	*Lewisburg.*	Market Street
Marie Humphrey,	*Brookville.*	Women's College
Louis E. Jones,	*Bellefonte.*	Bellefonte
Sarah Ethel Judd,	*Lewisburg.*	University

NAME.	RESIDENCE.	ROOM.
MAUDE M. REITZ,	*Sunbury.*	Sunbury
SARA CATHERINE SHIPE,	*Sunbury.*	Sunbury
ALEX. TRUITT,	*Punxsutawney.*	Academy
MYRTLE HARGRAVE WALKINSHAW,	*Greensburg.*	Women's College
DOROTHY WALLS,	*Lewisburg.*	South Third Street
JONATHAN WOLFE,	*Lewisburg.*	St. George Street

Students in Art, 18.

GENERAL INFORMATION.

ADVANTAGES.

The Bucknell Institute offers to young women superior educational advantages. Its location in a University town assures an atmosphere of study and the benefit of numerous literary exercises, lectures, and addresses. The students in the Institute have the use of the Library and apparatus of the Institute, and also of the College Astronomical Observatory, Chemical Laboratory, Museum and Library, and the various apparatus of the University. An isolated school could not provide for itself these advantages at a cost of less than a quarter of a million dollars.

During the year 1905 about forty thousand dollars was expended in enlarging and improving the women's buildings.

ADMINISTRATIVE AND OTHER REGULATIONS.

1. The general control of the Women's College, Institute, and School of Music is vested in the President of the University.

2. The government of the Institute, subject to such control, rests with the Dean.

3. Young women, whether attending the College, Institute or School of Music, are subject to the rules and regulations governing young women attending the Women's College.

RULES.

The laws governing the Women's College, are enacted by the Board of Trustees and a copy is given to each student when she enters the Institution.

Any officer of the Institute becoming cognizant of violation of regulations by any pupil shall report the same to the Dean, who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall be reported to the President of the University; and if, in the judgment of the President of the University and the Dean, the offense be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

Violations of the regulations of the Women's College or infraction of the laws of morality are punished by private reprimand, deprivation of privileges, or private withdrawal from the Institution.

PRIZES.

I. BUCKNELL PRIZES.

The following prizes were founded by William Bucknell, of Philadelphia:

1. A First Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the best essay.

2. A Second Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the second best essay.

For the year 1906 the First Prize of twenty-four dollars was awarded to Ruth Alma Kerstetter, and the Second Prize of sixteen dollars to Katherine Holzer Sanner.

3. A Third Senior Prize to be awarded to the member of the graduating class who shall attain the highest grade in the studies of the Senior Year. This excludes all grades of studies not in the Senior Year, all Senior studies taken before the Senior Year, and all studies not taken in the Institute.

For the year 1906 this prize of twenty-five dollars was awarded to Amelia Margaret Wensel.

4. A First Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the best Fourth Year essay.

5. A Second Fourth Year Prize, to be awarded to the member of the Fourth Year Class, who, being excellent in scholarship during the year, shall prepare the second best Fourth Year essay.

For the year 1906 these prizes were awarded as follows: Ada Ellen Moore received the First Prize of twenty dollars; Helen Hare, the Second Prize of fifteen dollars.

The fund consists of $2,000, the income from which is to be devoted to these prizes annually in a manner more particularly defined in the donor's communication to the Trustees.

Themes for the Bucknell Essay Prizes will be drawn from the following works:

For 1907—Shakspere's Macbeth; Tennyson's Idylls of the King; Carlyle's Essay on Burns; Scott's Lady of the Lake.

II. THE ELOCUTION PRIZE.

A prize in Elocution is offered to the student who shall give the best recitation at the Annual Contest.

For 1906 the prize was awarded to Laura Ellen McGann.

EXPENSES OF INSTITUTE STUDENTS.

I. Boarding Students. The regular charge for Boarding Students is $245.00 per annum; the other expenses, spending money, books, and clothing, will vary with the individual student.

An additional charge will be made when one student occupies a double room alone in the Main Building. Extra charge will also be made for front corner rooms in the West Wing.

Students are charged extra for the washing of dresses, and for the washing of more than 12 pieces per week.

For the rooms in the Bucknell Cottage and in New Cottage there is an extra charge, depending on the location.

Students from a distance will save inconvenience by applying for a room before the term opens. A deposit of ten dollars is required when a room is chosen. This amount is credited upon the regular term bills. Should a student for good reason be unable to return, the deposit will be refunded, provided notice is sent to the Registrar not less than four weeks before the opening of the term for which the room is engaged.

Students will be charged for damage done to furniture or to the room they occupy.

II. Day Students. The charges for Day Students amount to $65.00 per annum.

III. Extra Studies. The charges for Elocution, Drawing and Painting, and Music will be found under those titles.

Bills are payable *strictly in advance,* by the 20th of September, January 15th, and April 15th.

Checks and drafts should be drawn in favor of the Registrar of the University.

No bill will be made out for a shorter period than one term; and no deductions will be made, except in the charge of board, in case of a prolonged absence on account of sickness.

The expenses for Music, Printing, and other charges ordinarily incurred at Examination and on anniversary occasions, are paid by the class or classes which incur the expenses.

The fee for Graduation and Diploma is $5.

Free scholarships, covering tuition, are awarded to children of Ministers of the Gospel *in actual service.*

For information respecting the Institute, address the Dean of the Department for Women, Thomas A. Edwards, A. M., or the President of the University.

BUCKNELL SCHOOL OF MUSIC.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,
DIRECTOR.

EDITH METCALF,
PIANO.

RUTH ANGELENE BOTTORF,
PIPE ORGAN, PIANO, VIRGIL CLAVIER.

MARY ELIZABETH BOYNTON,
PIANO, VIRGIL CLAVIER.

WINIFRED GRACE ISAAC,
VOCAL.

EMMA GRIER GEARHART,
ASSISTANT IN VOCAL MUSIC.

PAUL GARFIELD STOLZ,
HARMONY AND HISTORY OF MUSIC.

GRADUATES, 1906.

NAME.	COURSE.	RESIDENCE.
Elizabeth Irene Barber,	*Piano, Harmony, Pipe Organ.*	Bridgeport
Stella Mae Doster,	*Piano, Harmony.*	Danville
Emma Grier Gearhart,	*Vocal, Harmony.*	Danville
Fannie May Getz,	*Piano, Harmony.*	Lewisburg
Margaret Irene Humphrey,	*Piano, Vocal, Harmony.*	Curwensville
Mary Elizabeth Lee,	*Piano, Pipe Organ, Harmony.*	Orwigsburg
Fannie Drue Logan,	*Piano, Pipe Organ, Harmony.*	Sunbury
Mary Georgiana Stanton,	*Piano, Harmony.*	Chinchilla
Blanche Sarah Sechler,	*Piano, Harmony.*	Danville
Ruth Stephens,	*Piano, Pipe Organ, Harmony.*	Lewisburg
Paul Garfield Stolz,	*Piano, Vocal, Harmony.*	Philadelphia

NAMES OF STUDENTS.

PIANO.

NAME.	RESIDENCE.
Henry Snare Africa	Huntingdon
Helen K. Allen	Lewisburg
Mary Etta Anderson	Reed's Gap
Julia Ella Andrews	Powell
George Bender	Lewisburg
Harriet Kremer Bower	Lewisburg
Mary Eva Bright	Rebersburg
Bertha Brown	Lewisburg
Harriet C. Burrows	Sunbury
Hazel Miriam Craig	Lewisburg
Mary Elizabeth Davison	Danville
Mary Edna Dietrich	Madisonburg
May Angeline Everitt	Vicksburg
Grace Catherine Everitt	Vicksburg
Mildred Masters Eves	Millville
Eva Irene Ginter	Lewisburg
Margaret Christine Gretzinger	Lewisburg
Carrie Grugan	West Milton
Mary Ethel Gutelius	Lewisburg
Nina Hackenburg	Milton
Priscilla Richardson Hardesty	Washington, D. C.
Charlotte May Hawk	Tower City
Therza Bell Hawke	Confluence
Daisy Valley Hegarty	Madera
Adalene Bing Holland	DuBoistown
Harriet Mary Hollingshead	Milton
Charles S. Hottenstein	Winfield
Marie Humphrey	Brookville
Martha Scott Irwin	Allenwood
Mabel Elizabeth Johnson	Mt. Carmel
Jane Levina Jordan	Kane
Harriet Yarger Keiser	Lewisburg
Rachel May Kunkle	Lewisburg
Leah Elizabeth Lindig	Lewisburg
Fannie Drue Logan	Sunbury
Edith Martin	Lewisburg

NAME.	RESIDENCE.
Elizabeth Budd Mulford	Bridgeton, N. J.
Jeanette C. Owens	Lewisburg
Clara J. Pauling	West Milton
Grace Catherine Raper	Lairdsville
Elsie May Reeder	Montoursville
Sue D. Schaeffer	Reading
Laura Maude Schultz	Sunbury
Julia Smeed	Lewisburg
Bessie Smythe	Montandon
Elizabeth Stephens	Lewisburg
Lillian Swalm	Tower City
Mary Ellen Swartz	Altoona
Lulu Thomas	Philipsburg
Helen Flukerson Tiffany	Pleasant Mount
Anna M. Tule	Montandon
Mary Sabina Ulmer	Cogan
Lola Miriam Ulrich	Penn Hall
LeRoy Wagner	Lewisburg
Elizabeth R. Weddell	Rillton
Sylvania Weiser	Watsontown
Winifred Werkheiser	West Milton
Harriet Lavinia Wilson	Frankford
Dorothy Wolfe	Lewisburg
Mary Young	Lewisburg
Sara Emma Zeitler	Punxsutawney

PIPE ORGAN.

Nettie Gordon	Lewisburg
Helen Elizabeth Sturr	Elmer, N. J.
Mary Ellen Swartz	Altoona
Jessie Theresa Young	Lewisburg
Sara Emma Zeitler	Punxsutawney

VOICE.

Mary Etta Anderson	Reed's Gap
Julia Ella Andrews	Powell
Mary Eva Bright	Rebersburg
Mary Edna Dietrich	Madisonburg
Newton Cromwell Fetter, Jr.	Doylestown

NAME.	RESIDENCE.
Frank Kemp Gibson	Minersville
Priscilla Richardson Hardesty	Washington, D. C.
Therza Bell Hawke	Confluence
Dorothy Hegarty	Madera
Myra High	White Deer
Adelene Bing Holland	DuBoistown
Martha Scott Irwin	Allenwood
Jane Levina Jordan	Kane
Daniel Edward Leifer	New York City
Walter Moore	Milton
Paul Black Noftsker	Shippensburg
William Edwin Parsons	Montgomery
Margaret Adelia Rowlands	Homestead
Sue D. Schaeffer	Reading
Edna Alice Seaman	Allentown
Leonora Mae Shamp	Lewisburg
Mary E. Sterner	Montgomery
Lou Lillian Swalm	Tower City
Ada Rosalie Swartz	Altoona
Mary Ellen Swartz	Altoona
Lola Miriam Ulrich	Penn Hall
Marguerite Watrous	New York City
Nala Damayanti Webb	Rutherford, N. J.
Elizabeth R. Weddell	Rillton
Sara Emma Zeitler	Punxsutawney

HARMONY—HISTORY OF MUSIC.

Bertha Brown	Lewisburg
Mary Elizabeth Davison	Danville
Mary Edna Dietrich	Madisonburg
Priscilla Richardson Hardesty	Washington, D. C.
Charlotte May Hawk	Tower City
Therza Bell Hawke	Confluence
Adelene Bing Holland	DuBoistown
Marie Humphrey	Brookville
Martha Scott Irwin	Allenwood
Harriet Yarger Keiser	Lewisburg
Elizabeth Budd Mulford	Bridgeton, N. J.
Clara J. Pauling	West Milton
Grace Catherine Raper	Lairdsville

NAME.	RESIDENCE.
Lou Lillian Swalm	Tower City
Ada Ellen Swartz	Altoona
Mary Ellen Swartz	Altoona
Mary Sabina Ulmer	Cogan
Lola Miriam Ulrich	Penn Hall
Harriet Wilson	Frankford
Sara Emma Zeitler	Punxsutawney

MANDOLIN, GUITAR, BANJO.

Elizabeth Hope Adams	Trenton, N. J.
Cottie Gudila Albrighit	Lewisburg
Julia Ella Andrews	Powell
William A. Bartol	Lewisburg
Harriet Kremer Bower	Lewisburg
Mildred Blackwell Cathers	Flemington, N. J.
Jane Chapman	Pittsburg
Belle Emily Craig	Lewisburg
Hazel Miriam Craig	Lewisburg
Alma Margaret Dietrich	Madisonburg
Mary Edna Dietrich	Madisonburg
Helge Florin	Johnsonburg
Harry Chester Gardner	McKeesport
Norman Buckland Gardner	Sunbury
Margaret Christine Gretzinger	Lewisburg
Theodore Bland Hoy	Montandon
Jane Levina Jordon	Kane
Jessie Claire McCool	Pottsgrove
Helen Mae Olds	Lewisburg
William Edwin Parsons	Montgomery
Iola Beatrice Quandt	Altoona
Grace Catherine Raper	Lairdsville
Sara Matilda Ray	Pittsburg
Leonora Mae Shamp	Lewisburg
Mary Slawson	Tunkhannock
Ada Rosalie Swartz	Altoona
Mary Ellen Swartz	Altoona
Grace Ethel Watkins	Scranton
Ida Katherine Williams	Reynoldsville
Nala Damayanti Webb	Rutherford, N. J.
Dorothy Wolfe	Lewisburg

SCIENCE OF MUSIC.

NAME.	RESIDENCE.
Jane Chapman	Pittsburg
Mary Elizabeth Davison	Danville
Priscilla Richardson Hardesty	Washington, D. C.
Harriet Yarger Keiser	Lewisburg
Rachel Mae Kunkle,	Lewisburg
Daniel Edward Leifer	New York City
Louise Robinson	Milton
Sara Matilda Ray	Pittsburg
Margaret Adelia Rowlands	Homestead
Carol Frances Spratt	Lewisburg
Lou Lillian Swalm	Tower City
Ida Katherine Williams	Reynoldsville

VIOLIN, VIOLA, VIOLONCELLO, DOUBLE BASS.

Julia Ella Andrews	Powell
Mildred Blackwell Cathers	Flemington, N. J.
Frances Theresa Cronin	Plymouth
William A. Bartol	Lewisburg
Belle Emily Craig	Lewisburg
Mary Elizabeth Davison	Danville
Norman Buckland Gardner	Sunbury
Priscilla Richardson Hardesty	Washington, D. C.
Theodore Bland Hoy	Montandon
Coit Roscoe Hoechst	East Berlin
Daniel Edward Leifer	New York City
Lawrence Oscar Manley	Canton
Louise Robinson	Milton
Leo Lawrence Rockwell	Monroeton
Carol Frances Spratt	Lewisburg
Earle Wayne Whitney	Wellsboro
Sara Emma Zeitler	Punxsutawney

FLUTE, CORNET, CLARINET, TROMBONE.

Ernest Sabin Burrows	Picture Rocks
Charles Edgar Dreher	Praxinos
Roy Long	Northumberland
Edwin Reynolds Manchester	Scranton
Albert Waffle Owens	Lewisburg

SUMMARY.

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Mandolin, Guitar, Banjo	31
Science of Music	12
Violin, Viola, Violoncello, Double Bass	17
Flute, Cornet, Clarinet, Trombone	5
Total Lessons	181
Total Pupils	107

COURSES OF STUDY.

The School of Music is under the special charge of a French artist, whose musical education was received at the Conservatory of Music in Paris, and who has had a large and successful experience in teaching. He is supported by competent assistants, and the course is designed to afford every needed facility for the study of Vocal and Instrumental Music. An ample supply of pianos from the best makers is provided for practice, including a Concert Grand.

INSTRUMENTAL MUSIC.

COURSE FOR THE PIANO-FORTE OF FOUR YEARS FOR GRADUATION.

The pupil is required to pursue the most thoroughly approved modern system of technical training. After the first rudiments have been mastered, the course of instruction leads to the practice of *études*, designed to unite with purely technical drill the requirements of artistic style and expression.

PIANO.

FIRST YEAR.

New England Conservatory method, 1 and 2 parts; Le Couppey Ecole du Méchanisme; Duvernoy Ecole du Méchanisme, books 1, 2, and 3; Kohler, op. 157; Czerny, fifty Studies from op. 261, 821, 599, and 139, ed. of Heinrich Germer; Meyer, Progressive and Melodious Studies; Robert Sutton's "The Elements of the Theory of Music"; Brown, Musical Biographies of Composers.

SECOND YEAR.

Plaidy, Technical Studies; Czerny, Polyrhymic Studies from op. 139, 834, 335, and 299; Czerny, Studies of Ornamentation from op. 355 and 833; Czerny, twelve Studies from op. 299 and 740; Czerny,

thirty Studies from op. 299 and 834 (Heinrich Germer Edition); Heller, Expression and Rhythm, op. 135; Kullak, Preparatory Octave Studies; Homer Norris's Practical Harmony; History of Music.

THIRD YEAR.

Clementi "Gradus ad Parnassum"; Tausig, Daily Studies; Kohler Cramer Studies, books 1, 2, and 3; Czerny, thirty-six Octave Studies from op. 821, 355, 740, and 834 (Heinrich Germer Edition); Norris, Harmony; Dr. Marx, Universal School of Music.

FOURTH YEAR.

Bach, two and three-voiced invention; Czerny, twenty Studies from op. 325; Czerny, nineteen Studies from op. 740; Czerny, Toccata, op. 92 (Heinrich Germer Edition); Kullak, Octave Studies; Chopin, Studies; Liszt, Studies; Bach Well-Tempered Clavichord (prelude and fugues); Kullak, Art of Touch; Symphonies of Haydn, Mozart, and Beethoven.

During the year, selected studies from Bertini, Rosselen, Moscheles, Heez, and Thalberg are also given to the pupils.

That the æsthetic development may be proportionately secured, the above exercises are supplemented by the study of the works of the best composers.

COURSE FOR PIPE ORGAN.

This course is based upon:

Dudley Buck's Pedal Studies, and upon the works of Rink, Batiste, Lefébre-Wely, Guilmant, and others.

COURSE FOR THE VIOLIN.

This course is based upon:

Dancla's School Mechanism; De Beriot's Violinist's First Guide; Florrillo's Studies; Alard's Studies; Kreutzer's Studies, etc., with selections from compositions of the best writers for this instrument.

COURSE FOR THE VIOLONCELLO.

Instruction for this instrument is based upon:

Méthod Pratique pour le Violoncello, par S. Lee; studies by Piatti and Romberg.

COURSE FOR THE VIOLA.

Bruni's Methods and Studies, by Campagnoli.

COURSE FOR CONTREBASSO (DOUBLE BASS).

Bottesini's Method.

VOICE CULTURE.

COURSE OF THREE YEARS FOR GRADUATION.

Careful instruction is given in the use of the voice, and the correct manner of producing purity of tone. To secure control over the voice and gain for it flexibility, fullness, and durability, thorough drills are afforded in such technical exercises as:

Lamperti's and Vannuccini's Italian Methods, Vocalises of Sieber, Concone, Tütgen, Vaccai, Bonaldi, Bordogni, Marchesi, and Ponafka; Lamperti's Studies in Bravura Singing. For expression and the development of a pure style, practice is afforded in singing the best English, German, Italian, and French Songs, Operatic Arias and Solos from the Oratorios.

COURSE IN HARMONY.

It is urgently recommended that the study of Harmony be included in the other musical work, inasmuch as a sound knowledge of its principles is essential to the success of all vocalists and instrumentalists. The text-books used are: Bussler's Harmonic Exercises, Homer Norris's Practical Harmony, Richter's Counterpoint, and Reicha's Course of Musical Composition.

THE ORCHESTRA.

CLASSES FOR ALL ORCHESTRAL INSTRUMENTS.

Students who are sufficiently advanced in any of the above musical instruments will have opportunity of practice in string quartettes, trios, concertos, and symphonies of Beethoven, Mozart and Haydn.

THE BAND.

A Brass Band, consisting of about twenty pieces, has been organized, and is led by M. Elysée Aviragnet, Director of the School of Music. The band meets weekly in the Laboratory for rehearsal, and furnishes street and concert music for University and town exercises.

RECITALS.

On the Friday evening prior to Commencement Week a public recital of the School of Music is held in Bucknell Hall.

The public examination of those who desire certificates of proficiency is held in Bucknell Hall the Saturday afternoon before commencement. At this time each pupil plays or sings two pieces of high grade, and reads an essay on some subject connected with music.

TUITION.

Extra tuition is charged for instruction in Music, as follows:

	Per Annum.
Vocal Music	$60 00
Music on Piano *or* Organ	60 00
Harmony, in Class	18 00
Harmony, in private lessons	60 00
Use of Instruments for practice	10 00
Guitar, in Class	15 00
	Per Lesson.
Special individual instruction in Music	$1 00

No reduction is made except in case of protracted illness.

Instruction in the Orchestra and in Harmony is free to pupils otherwise studying music.

RESIDENCE OF MUSIC PUPILS.

Pupils in music reside in the Women's College and are under the care of the Dean of the Department for Women. Students pursuing any of the Institute courses can also take studies in music. Those who wish to make music a specialty are recommended to take at least one study each term in Language or Literature.

The regular charges for pupils in music, residing in the Institute,

including one literary subject per term, are $200 per annum. This *does not* include charges for instruction in music, which are determined by the number of lessons taken per week.

GRADUATION IN MUSIC.

Students who complete any of the Courses in Music and pass the examinations, receive a certificate of proficiency. Students will not be ranked as Seniors in Music until they have passed an examination before the Committee. Besides the examination before the Committee for admission to the Senior Class, students will be required to pass a preliminary examination at the opening of the Spring term, and a final examination before Commencement Week. Students will not be admitted to the final examination unless they have passed the preliminary examinations.

AVIRAGNET PRIZES.

Professor Elysée Aviragnet has established four prizes as follows:

1. (*a*) One prize for excellence in Instrumental, Vocal Music and Harmony; (*b*) one for excellence in Science of Music. For 1906 the Music prizes were awarded to Miss Mary Elizabeth Lee, Miss Irene Humphrey, Miss Emma Grier Gearhart and Mr. Paul Stolz. For 1906 the Prize for Science of Music was awarded to Miss Elizabeth Barber.

2. One prize for excellence in French and one for excellence in Spanish.

GENERAL REGULATIONS.

Young ladies attending upon the School of Music are subject to the administration and other regulations enacted by the Board of Trustees for the government of students in the Women's College. These rules are given on page 191 of this Catalogue. Students of Music are also entitled to all the privileges of the Women's College.

For information respecting the School of Music, address the Director, Elysée Aviragnet, Mus. Doc., or the President of the University.

UNIVERSITY CALENDAR.

1907-1908

Second Term Ends, ...Wednesday, March 27, 1907

SPRING RECESS.

Third Term Begins,.....Tuesday, April 2, 1907
Sermon before the Christian Association, ..Sunday, April 7, 1907
Declamation of the Third Form, Academy, Saturday, April 13, 1907
Exercises of the Fourth-Year Class, Institute,
Saturday, April 27, 1907
Contest in Elocution, Institute, ...Saturday, May 11, 1907
Exhibition of the Junior Class, College, ...Friday, May 17, 1907
Examinations, ...Wednesday to Saturday, June 12 to 15, 1907
Exhibition, School of Music, ...Friday, June 14, 1907
Junior Debate, ...Saturday, June 15, 1907
Baccalaureate Sermon, ...Sunday, June 16, 1907
Sermon before the Education Society, ...Sunday, June 16, 1907
Examinations for Admission to College, ...Monday, June 17, 1907
Meeting of the Alumnæ of the Institute, ...Monday, June 17, 1907
Oration before the Literary Society, ...Monday, June 17, 1907
Annual Meeting of the Trustees, ...Tuesday, June 18, 1907
Annual Meeting of the Alumni, ...Tuesday, June 18, 1907
Exhibition of the Fourth Form, Academy, .Tuesday, June 18, 1907
Graduating Exercises of the Institute, ...Tuesday, June 18, 1907
Oration before the Alumni, ...Tuesday, June 18, 1907
ANNUAL COMMENCEMENT, the 57th, Wednesday, June 19, 1907

SUMMER VACATION.

Fall Examinations for Admission to College,
Wednesday, September 18, 1907
First Term Begins, ...Thursday, September 19, 1907
Reception by Christian Associations, Saturday, September 21, 1907
Introductory Address, ...Monday, September 23, 1907
Matriculation, ...Monday, November 25, 1907
Thanksgiving (recess of three days), Thursday, November 28, 1907
First Term Ends, ...Thursday, December 19, 1907

HOLIDAY RECESS.

Second Term Begins, ...Thursday, January 2, 1908
Day of Prayer for Colleges, ...Thursday, January 23, 1908
Second Term Ends, ...Thursday, March 19, 1908

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